

THE
ARCHITECT
& BUILDING NEWS

IN THIS ISSUE

- COMPETITION RESULT:
STATE HOSPITAL, DOHA
- SCHOOL AT AMLWCH, ANGLESEY

SEPTEMBER 17, 1953 · VOL. 204 · NO. 12 · ONE SHILLING WEEKLY

The *BRITANNIC* Floor Spring



No 444

*Makers of Floor
Springs in 10 Reigns*

WILLIAM NEWMAN & SONS Ltd.

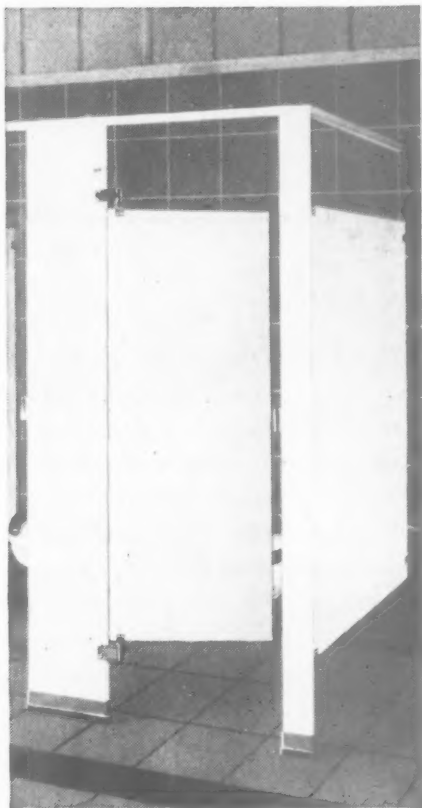
HOSPITAL STREET, BIRMINGHAM 19. *Established over 200 years*

"Now", I sez, 'about the painting of her.

What colour do you want 'er, Elmer P' He said red.

'Elmer' I sez, 'Red makes a
beautiful job; but it ain't practical to
use a single colour, and I'll tell
you why. She's too durn hard to
see at night".

Lemuel Putt *



There speaks the old Specialist, the world's most famous privy† builder... and speaks common sense about an outdoor job. But at Roften, where we believe we now build the world's best priviest, we allow the customer to specify his colour. When it's done, we think he will have to go a mighty long way to find anything as good.

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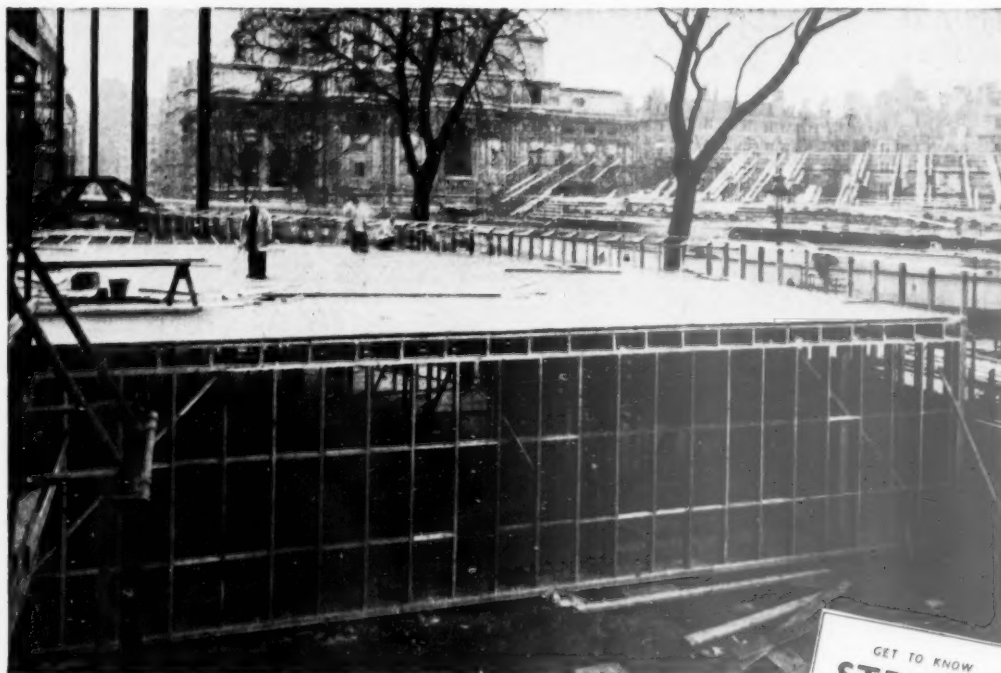
* The Specialist by Charles Sale:
Putnam, 42 Great Russell St., London, W.C.2.

† Translation: lavatories or toilet cubicles!

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Now, it was at the time of the Coronation . . .

that Her Majesty's Ministry of Works, faced with the task of erecting a temporary building which, whilst light in construction and modern in conception, would not be thrust into insignificance by the splendid lines of the Abbey, created the now famous Annexe, which has received unstinted praise from the architectural profession throughout the world.

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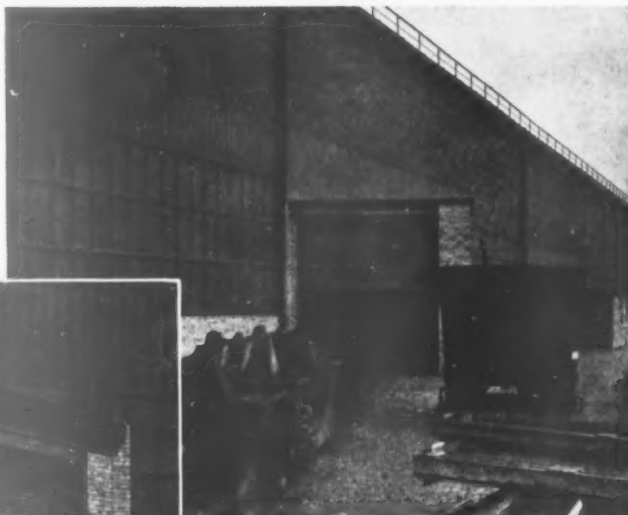
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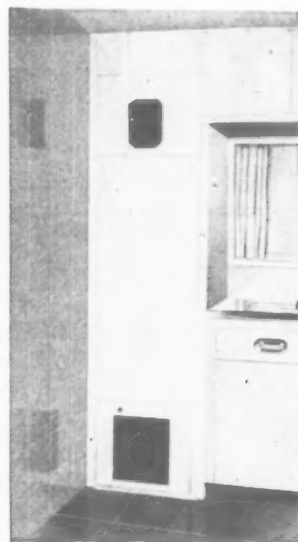
More and more architects are specifying this method of space-heating not only for private houses but also for flats, shops and public buildings. For comfort, convenience and economy Radiation Whole-house Warming is unequalled. By incorporating it at the drawing-board stage, architects also enjoy greater freedom in planning.

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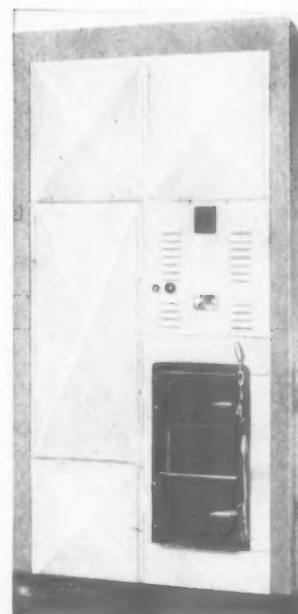
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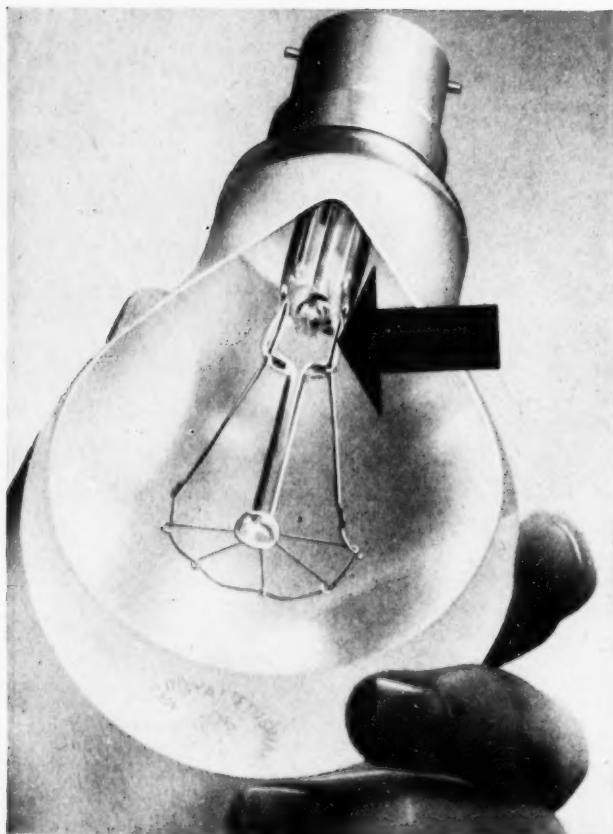
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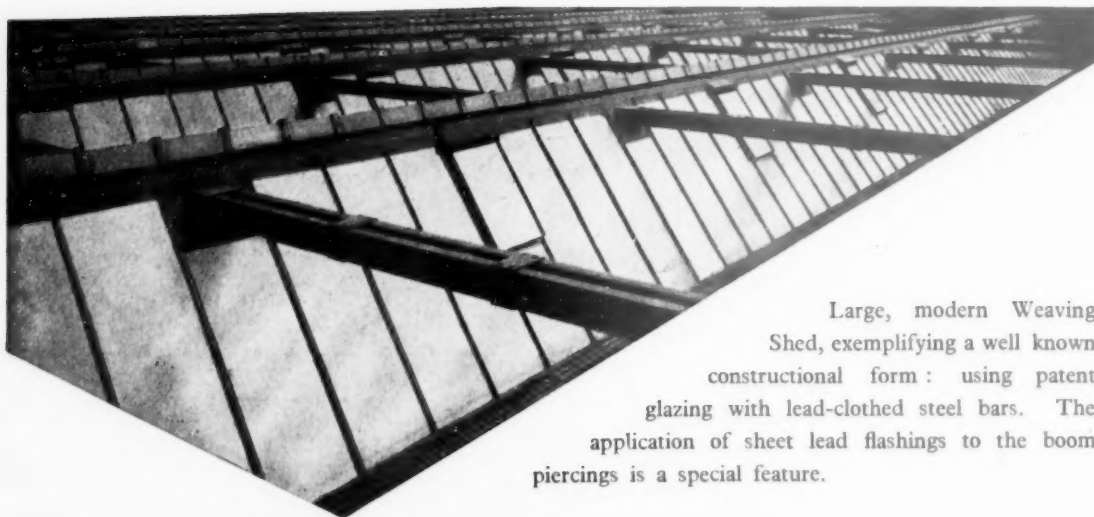


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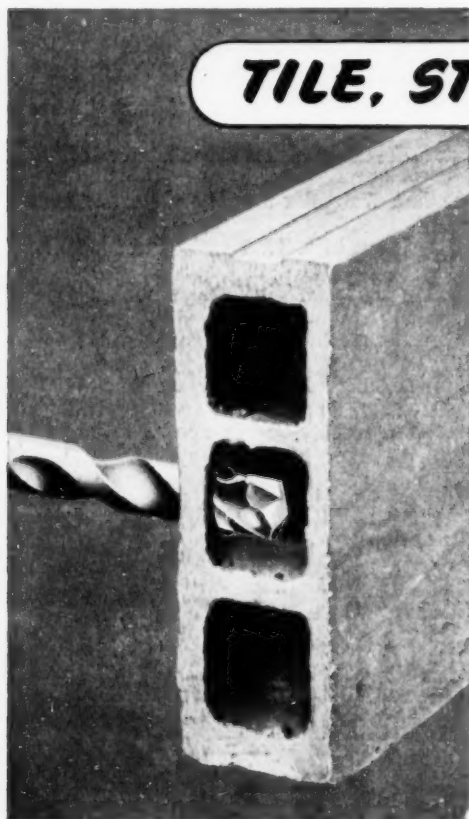
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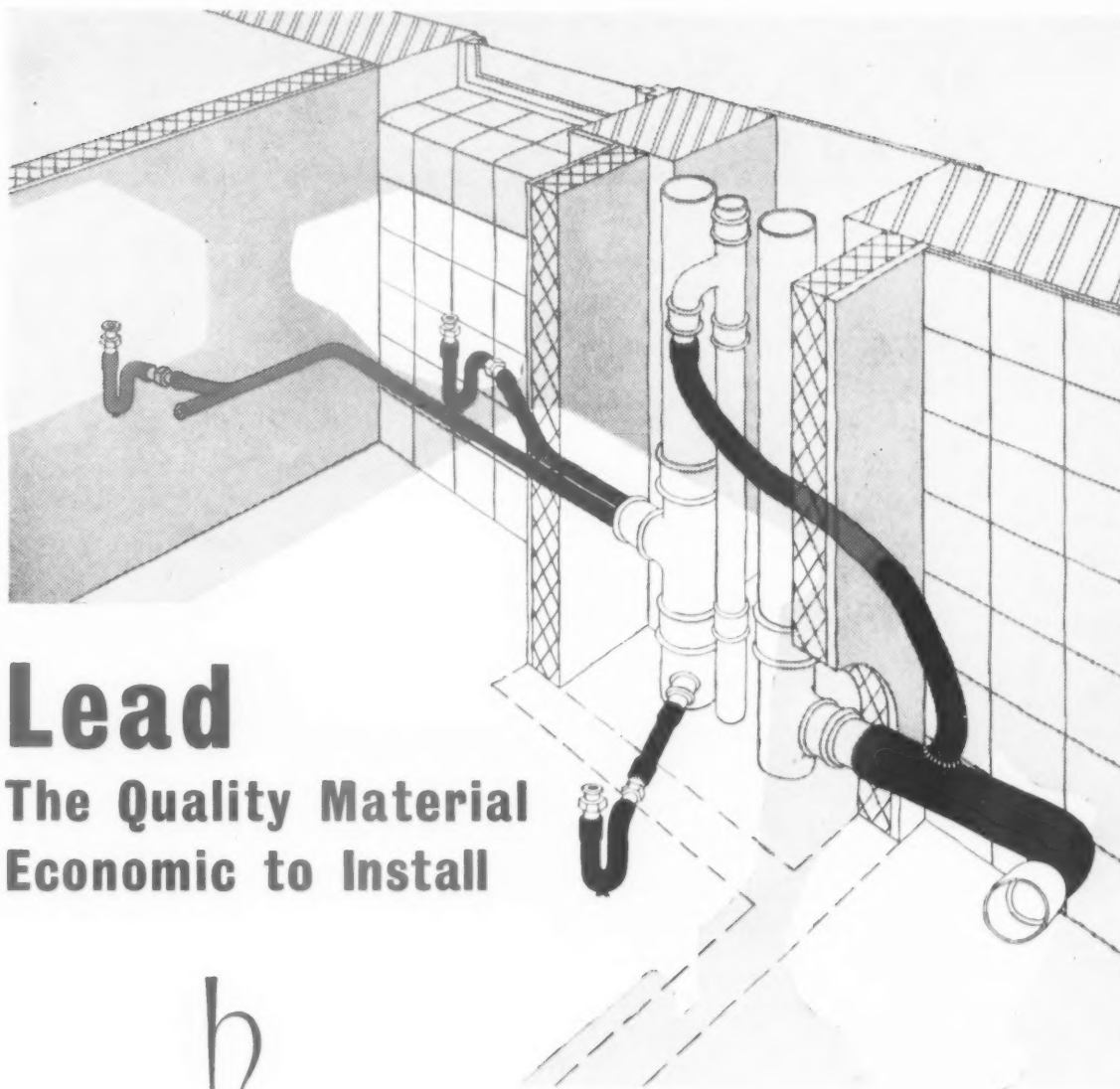
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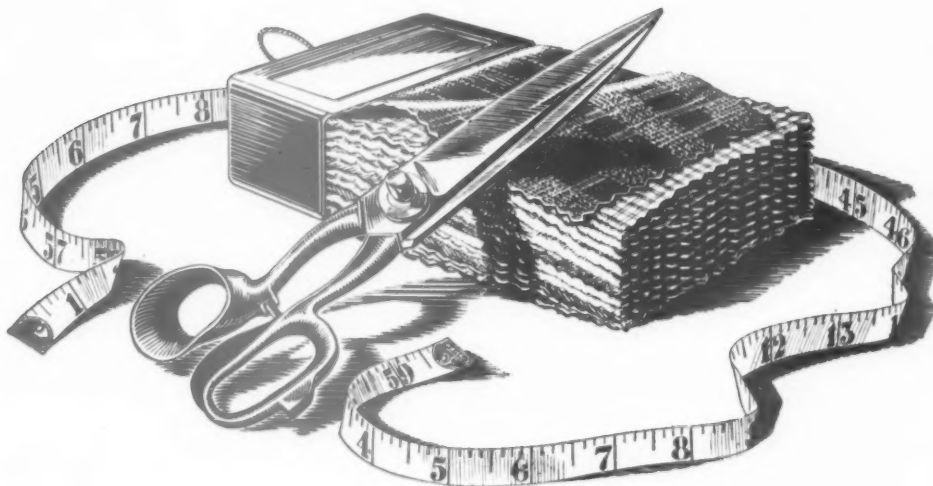
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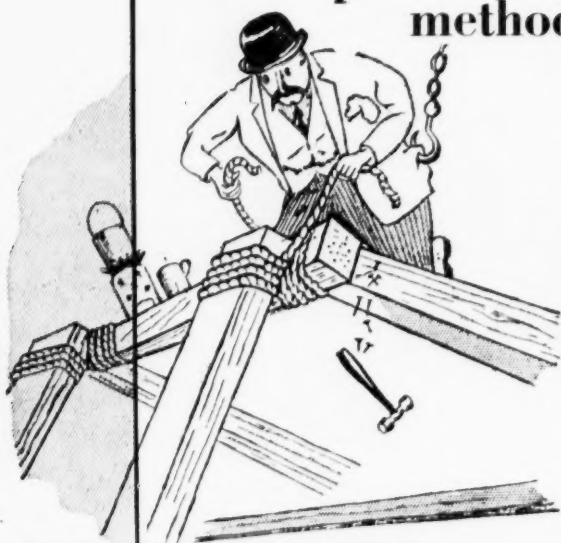


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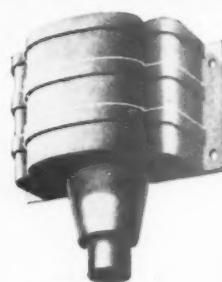
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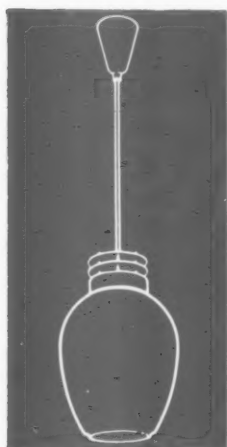
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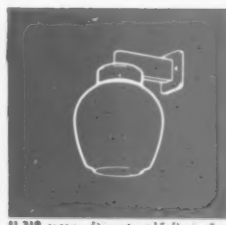
U.309 SIZES: Diameter 7 1/2" Depth 9 1/2"
WATTAGE: up to 100 watts.



U.310 SIZES: Diameter 8 1/2" Depth 12"
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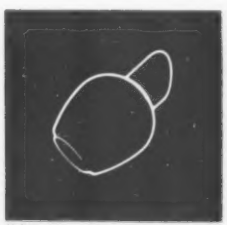
U.311 SIZES: Diameter 10" Depth 1' 1 1/2"
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U.318 SIZES: Diameter 7 1/2" Proj. 9"
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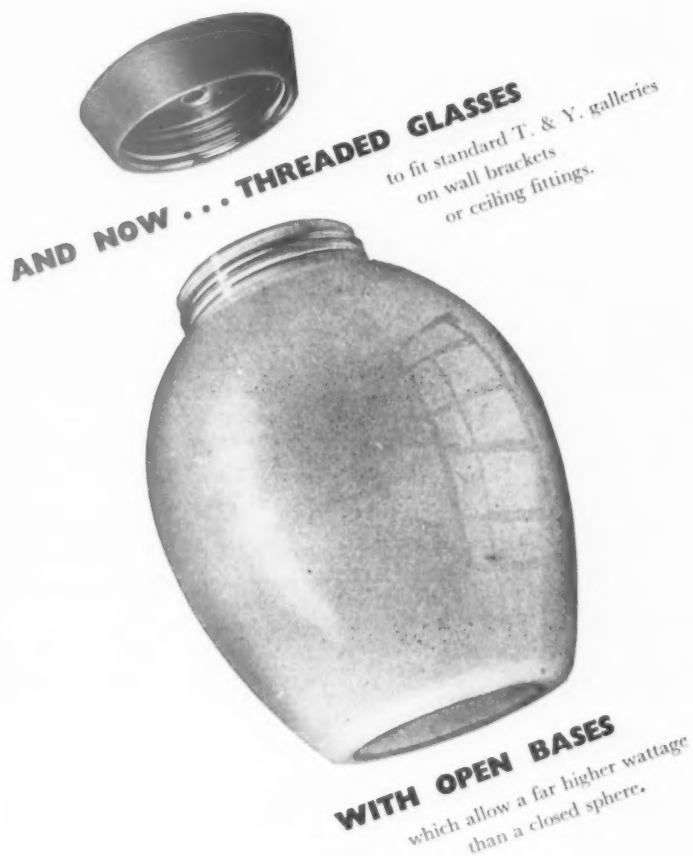
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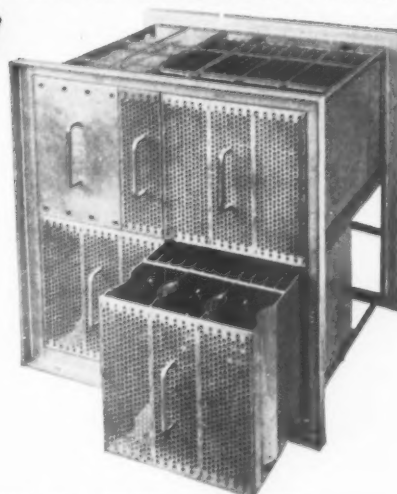
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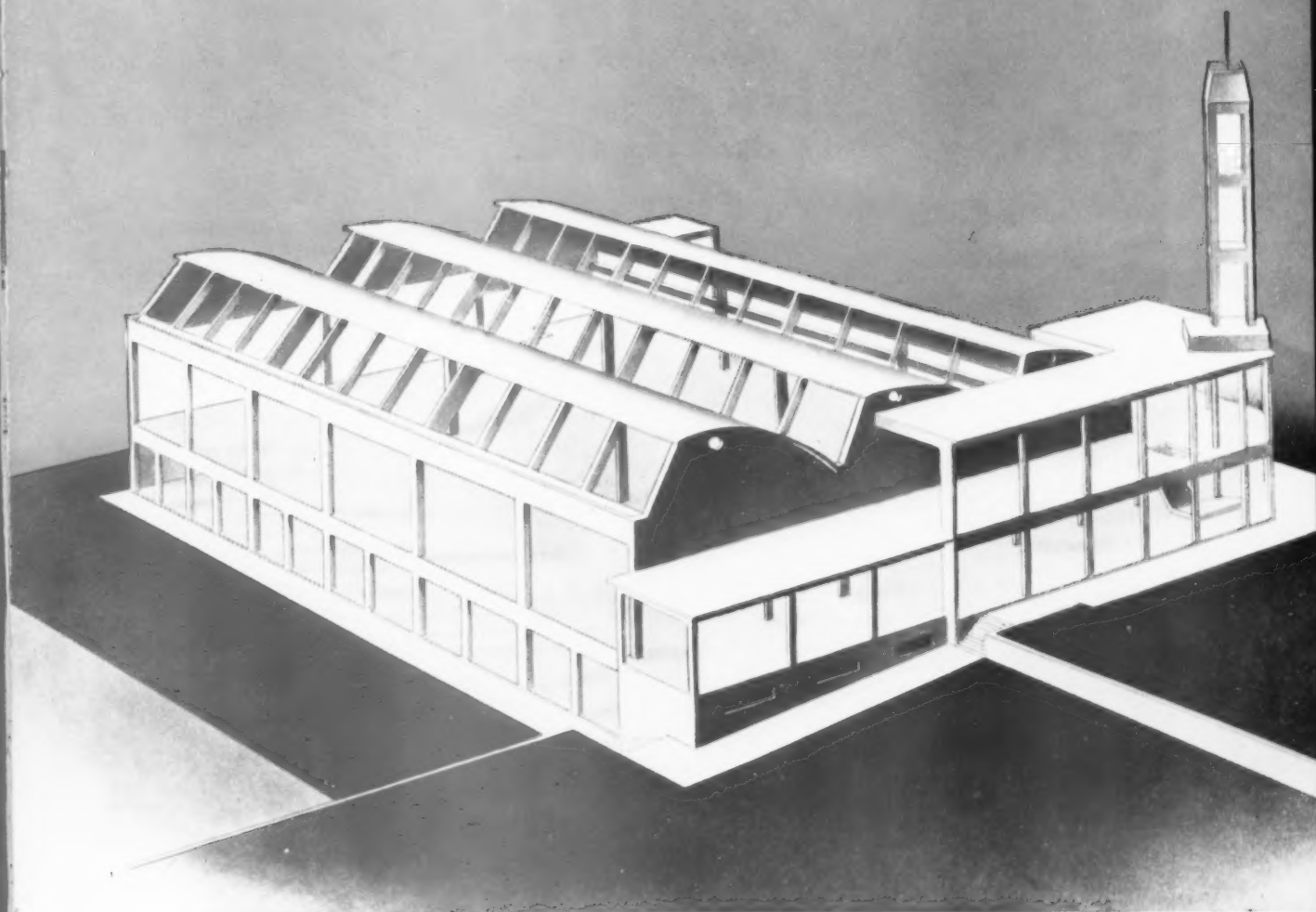
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THE ARCHITECT and Building News, September 17, 1953

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The scope of this important development is described in a booklet entitled "**Colour with a purpose**," which also contains much interesting matter concerning some of the latest developments in colour usage. A copy, together with a range of colour chips, will gladly be sent to any architect upon request.

The Ministry of Education has applied the name "Archrome" to the new colour range and has included much valuable data about it in their Building Bulletin No. 9 (Colour in School Buildings).

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THE ARCHITECT & BUILDING NEWS

September 17, 1953

The "Architect and Building News" incorporates the "Architect," founded in 1869, and the "Building News," founded in 1854. The annual subscription, inland and overseas, is £2 15s. 0d. post paid: U.S.A. and Canada \$9.00

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Manchester: 260 Deansgate. Tel. Blackfriars 4412 (3 lines), Deansgate 3595 (2 lines); Glasgow: 268 Renfield Street.

THE FINE ARTS: PROS AND CONS

SOMETHING more must evidently be done about our surroundings. Not merely the *saave* persuasion of Suburbia into more Regency stripes, more indoor plants or what have you in currently fashionable stock, but a question of infusing some constructive order into the patchwork of old and new representing the scene for the last act of "The British Way of Life" before the brokers men, and Hollywood, bring the curtain down.

Meantime, subjecting village and townscape to an "embalmer's freeze" in the interests of preservation: the cultivation of "stockbroker's neo-Elizabethan" on the pretext of loyalism: and the accelerating trick-cycle of the contemporary idiom turning into "commercial modern" are alike producing results that shock not only the designer but the layman.

This applies most to architecture and industrial design, the remaining points of contact between artist, technician and layman. The statement immediately poses a problem: the two arts are commonly regarded as closely analogous, yet one still enjoys the status of a fine art which the other would not claim.

Latterly we have heard a great deal about these matters in relation to the preservation of public amenities. Instances are buildings proposed in proximity to St. Paul's, a television mast on Dartmoor, and "street furniture." Such control as exists has been brought into play with increasing frequency—serving sometimes to show its creaking ineffectiveness. Nobody likes the word control or its implications, and aesthetics above all should be a matter of individual freedom of choice.

"Guidance" or "inspiration" would be better words to employ—but, again, suggest either a longer-

term process of enlightenment that can be afforded at this time, or else a school-marmish attitude equally distasteful.

The various bodies, official and otherwise, to which this control (or guidance, or inspiration) is delegated are fighting an uphill battle, not without success, but are hampered by their advisory rather than executive powers. Again, too often, much that affects the country at large is left to local option not always untinged with political considerations, or worse.

In short, overriding control by the state is becoming essential, and as urgently as in any wartime or other circumstances in which differences are by common consent resolved and measures which would otherwise prove unacceptable willingly undertaken.

This involves a degree of benevolent despotism. Before we recoil from such a word, let us consider what consolidated progress does not involve control; what, in the final analysis, is freedom of individual choice really worth in aesthetic as in other matters?

A Ministry of Fine Arts for this country is frequently mooted. By the same token, the title is convenient but unsatisfactory. "Ministry" perhaps, (we may say) in the hieratic rather than the bureaucratic sense: we have had rather too much of ministries. "Fine Arts," now; surely the nigger lurks rather in the woodpile of the "arts less fine"? But to refer in what follows to a "?" of "?" puts too much strain on both writer and reader, so let us provisionally accept the rather prissy label, and examine some of its pros and cons. Who should compose and staff it? *Imprimis*, there is demonstrably no substitute for working knowledge in this field. This seems to rule out both the intellectual and the captain of industry, both of whom have proved on



Photo: Yevzerikhin

The new Moscow State University which was opened recently. The high block has 32 storeys and the group of buildings covers nearly 800 acres. Accommodation includes 6,000 living rooms for students. The building is in stone and was commenced in 1949

the whole bad substitutes for intelligent technicians. Can that knowledge be tempted into state service? Apparently yes, judged by the recent work of some "official" designers and departments.

Should its head be a politician? Hardly: there was a time when the statesman and politician, as a man of hereditary means and taste, was both in private and public life a patron of the arts. But now?

The executive staff at lower levels? We are already faced with a situation in which society denies an expensively trained artist-technician the wage of a garage-hand. But these men can be found, and may be content with as little as the scientist, at a pinch, in view of what is at stake.

The labours and growing-pains which would attend its birth and youth? Perhaps no more protracted or permanent than those of any constructive element of civilization—but needing as skilled attention as their physical analogies. Have we such "doctors," such "psychologists," in matters of art, now that the great philosophers are dead? These important aspects demand thought, but the basic fact remains that, of all forms of state control, that of art or design, whether in the preservation of what we value or the initiation of what posterity will judge, has a very strong case.

EVENTS AND COMMENTS

DOHA HOSPITAL COMPETITION

Mr. John R. Harris, the winner of the Doha Hospital Competition, was trained at the A.A. where he gained an Honours Diploma. He is the son of the well-known quantity surveyor Mr. A. Harris. Mr. John Harris served in the Sappers during the war and was captured in Hong Kong. Upon release from the army he returned to the A.A., and in 1950 married Miss Gillian Rowe, who was in his year at the A.A., and is the daughter of Mr. C. W. D. Rowe, deputy chairman of the London Brick Company. The competition drawings are on show at the Building Centre until Saturday at 1 p.m.

THE FARNBOROUGH AIR SHOW

I had not been to the S.B.A.C. air show at Farnborough for three years and found it much more elaborately organized than on my last visit. Apart from the vast tent holding the static display there were numerous others containing bars, buffets and V.I.P.s. The most attractive feature of the layout however was the long line of caravans each with its little enclosure and awning beneath which the exhibitors' guests took their refreshments. On the day I was there it was fine and hot and I envied those who had friends in the industry. I was not able to see many aircraft

interiors but those I did see were neat and inoffensive in design. There is a big change for the better in the external decoration of air liners; I saw none with the bad lettering and decoration which was so common a few years ago. The general shape of aircraft has for a long time served as a reference point for good industrial design and many famous types have been outstanding for their beauty of form. Whether they were thought beautiful when they first appeared is another matter. The first aircraft with retractable undercarriages looked most sinister but the effect soon wore off. The latest aircraft shapes seem to form two streams, those which are recognized as beautiful at once, like the Hawker Hunter and English Electric Canberra, and, to a lesser extent, the Supermarine Swift, and those which are strange and sinister like the Handley Page Victor with its fish-like nose and extraordinary tail assembly; the Avro Vulcan and the Vickers-Armstrong Valiant. The Comet is so familiar that it is no longer sinister and is now recognized as beautiful. It is difficult to say just what makes these new aircraft look so evil but I think a contributory factor is the fact that the human element in the outward appearance, and by this I mean the pilot's window, is now completely streamlined into the fuselage shape. This seems to me to give these machines an animal-like appearance. As long as you can see the driver the machine does not look sinister.

In the flying display the maestro Duke, fresh from his record-breaking (subject to official confirmation) put his red Hunter through its paces, but here I must admit to a certain blasé attitude to high-speed flying. Although Duke was travelling much faster his display did not have anything like the effect on me of the first sight of the D.H. 109 and the first Meteor in, when was it? 1946? Strangely enough, the most impressive display was put up by a tiny Auster Aiglet trainer. You would think that there was nothing new in aerobatics, but this particular pilot was something of a genius and executed many odd movements of his own invention, and others better known, with such nicety of judgment and such wonderful steadiness that one longed for more. There were many other very astonishing things. A Canberra which seemed to take off from a standing start, so quickly was it off the ground. A twin-engined helicopter which took off one end at a time and looked like a flying railway car, and the huge delta-winged Avro Vulcan which rears up on its back wheels as it moves down the runway and then takes off at a steep angle. Two of these

great white machines flew in formation with four tiny delta-winged research aircraft, each painted a different colour. A queer and remarkable sight.

Compared with the cost of even the smallest military aircraft a mere Rolls-Royce or Bentley costs nothing, and this probably accounts for the very large number of expensive British cars to be seen at the show. I wished a little that I was one of the captains of the aircraft industry.

DRAWINGS FOR REPRODUCTION

An agonized note from the Editor asks me to write something about drawings intended for reproduction. This applies mainly to competition drawings which, if they win a prize are photographed quickly and before there is time to have them re-drawn to suit the block maker. Editors are always blamed if competition drawings are unreadable in the pages of their papers. Often it is the fault of the draughtsmanship. The esoteric line, and small, neat lettering are arch enemies of the editor. While competitors cannot be expected to draw for editors rather than assessors they should not be surprised when their drawings reproduce badly. If you want to see the sort of thing that makes an editor's heart glad look at Peatfield, Mayo and Bodgener's drawings of the Kampala competition reproduced in last week's issue.

THE END OF A PARTNERSHIP

The news that Barbara Randall is retiring from journalism to devote herself to farming means the end of her partnership with Monica Pidgeon as joint editor of *Architectural Design*. I do not know for how long these two have been running the paper but I do know that since the war *Architectural Design* has made great strides from little more than a picture paper to a first-class technical journal. While wishing Mrs. Randall success and happiness in her new life I shed a tear that the architectural world is to see her no more. Press shows will be duller without her for the delegation from *Architectural Design* brought rays of sunshine to the duller occasion.

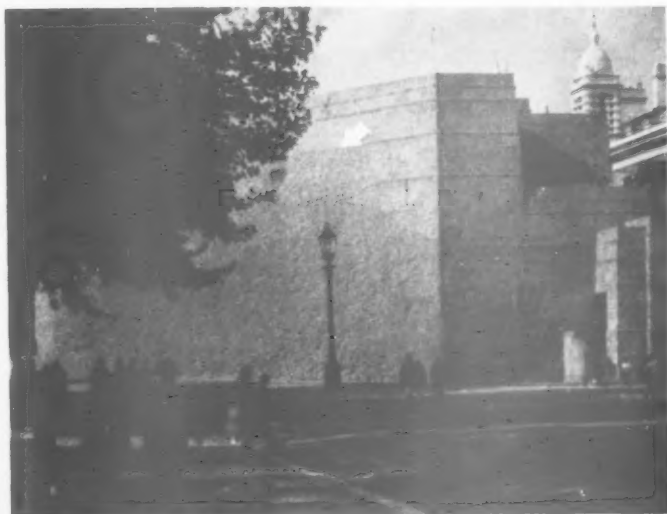
WITHOUT COMMENT

In a broadcast last Saturday the B.B.C. reported that the French Cabinet had approved in principle a number of decrees prepared by the Ministry of Reconstruction. The decrees include plans for building new administrative centres above the four main railway goods depots in Paris. The report says that these new blocks of offices will be built on piles so that trains can continue to run underneath. It is understood that the main idea is to release the 5,000 or so flats now occupied by the administrative services.

MORE CREEPERS, PLEASE

My picture shows that "Lenin's tomb" or "the Citadel" adjoining the Horse Guards Parade is much improved by the creeper which now covers much of its barest wall. This sort of treatment might with advantage be applied to other buildings. Our forefathers planted acorns for the wooden walls of Old England. Let us plant creepers for the stone, concrete and brick of Young England. Why not give the toothless Royal Fine Art Commission the power to insist that a building—for which it does not much care, but dare not say why—be covered with evergreen creeper within X years of completion?

ABNER



NEWS OF THE WEEK

R.I.B.A. Maintenance Scholarships in Architecture

The Royal Institute of British Architects announce that the following Maintenance Scholarships have been awarded for the year 1953-1954: An R.I.B.A. 4th and 5th Year Maintenance Scholarship of £60 per annum to Mr. K. W. Barnes of Wallington, Surrey. An R.I.B.A. Howe Green 4th and 5th Year Maintenance Scholarship of £40 per annum to Mr. J. W. Francis of Slough, Bucks. An R.I.B.A. Houston Maintenance Scholarship of £125 per annum to Mr. J. D. Connell of London, S.W.10. The Builder Maintenance Scholarship of £75 per annum to Mr. P. G. Wentworth-Shields of London, S.W.1.

The Maintenance Scholarships previously awarded to the following candidates have been renewed: Mr. D. S. Bremner (Aberdeen School of Architecture, Robert Gordon's Technical College—R.I.B.A. Houston Maintenance Scholarship of £125 per annum). Mr. B. E. Clack (School of Architecture, The Polytechnic, Regent Street, London—R.I.B.A. Houston Maintenance Scholarship of £125 per annum). Mr. A. G. H. Morrow (Department of Architecture, The Northern Polytechnic—R.I.B.A. Houston Maintenance Scholarship of £125 per annum). Mr. D. G. Potter (School of Architecture, The Polytechnic, Regent Street, London—R.I.B.A. Houston Maintenance Scholarship of £125 per annum). Mr. W. B. Sidnell (Bartlett School of Architecture, University of London—R.I.B.A. Houston Maintenance Scholarship of £125 per annum). Mr. A. G. Diprose (Architectural Association, School of Architecture—Ralph Knott Memorial Maintenance Scholarship of £45 per annum).

Proposed Town Hall

Bebington (Wirral) Council has invited Messrs. Willink and Dod, Liverpool architects, to design the new town hall to be built for the borough.

Sketches are to be submitted, and if the general concept is approved detailed plans will be asked for together with estimates of probable costs of the first stage of the scheme which is intended to house the treasurer's and surveyor's departments with provision for the electoral registration section and committee work.

The Ministry has sanctioned the expenditure of £56,000 on the first stage of the scheme.

Housing Progress

During July the number of permanent houses completed in Great Britain was 27,206. This compares with 19,985 completed in July last year.

In the first seven months of this year 172,510 permanent houses have been completed as against 130,949 in the same period of 1952.

Post-war total of permanent houses and flats completed in Britain is now 1,428,781.

Of these local authorities have been responsible for 1,124,122; private builders for 210,528; Government departments for 36,725; and housing associations for 12,455.

War-destroyed houses that have been rebuilt total 9,386 by local authorities and 35,565 under licence.

In Scotland alone, the total number of new houses and flats is 166,605 and in July their quota of the total was 2,326.

GOLF MATCH, RESULT

In a match played at Wentworth, the London Master Builders Association G.S. beat the Royal Institute of Chartered Surveyors G.S. by 10½ matches to 7½.

DOVER HARBOUR BOARD

In the list of sub-contractors for the above in the August 27 issue, we unfortunately omitted the name of Utility Lamp & Fittings Co., Ltd., and the fact that they were responsible for the Lighting Fittings (see advertisement page 16).

C O R R E S P O N D E N C E

Lavenham

To the Editor of the A. & B.N.

SIR,—There are several cardinal facts about this preservation business that everyone should know:

(1) It is always cheaper to recondition old properties to a reasonable (not a byelaw) state of fitness, than to pull them down and build new ones. Often, the cost of reconditioning is little more than that of demolition and site clearance.

(2) A byelaw state of habitability cannot in law be enforced in respect of old, existing buildings.

(3) It is rather pedantic and somewhat foolish to label these reconditioned buildings as "substandard" just because they do not conform to the minute of byelaw requirements and to every tittle of the *pronunciamientos* of the building scientists. Notwithstanding their nonconformity, old, restored buildings can be comfortable, hygienic and pleasant places in which to work and live.

(4) Since we, as a nation, are all but penniless, it is no more than common-sense to restore rather than to tear down and rebuild.

If Lavenham be taken as a particular instance, there is another consideration that powerfully reinforces the above-mentioned facts. The charm and distinctive character of Lavenham lies in the fact that it is a mediaeval town. To demolish the buildings shown in your photograph and to replace them with any type of modern building would produce a result as revolting as grafting the limbs of a maiden on to the body of a woman of eighty. Those of your readers who know Lavenham and remember the red-brick Victorian schoolhouse adjacent the Moot Hall, will realize that I have not been guilty of exaggerated language.

I am, etc.,

THOMAS FOSTER.

Lecturer in Construction, Department of Architecture, Kingston School of Art.

"The Fate of the Prefabs"

To the Editor of the A. & B.N.

SIR,—Your editorial in the issue of the *Architect & Building News* of September 3 under the above title will be of interest to Housing Managers, and the views expressed will be heartily endorsed by many of us who have been responsible for the management of temporary dwellings since the close of the war.

It would be a simple job to compile a case history for each bungalow as Housing Departments keep very comprehensive records both of families with their size, standard, and date of occupation, and details of all repairs carried out at each individual bungalow. In my own experience the electrical fittings have given cause for most complaint followed by a certain number of grumbles from tenants on account of poor insulation and excessive condensation.

On the whole the prefabs have done a most valuable job, and where families were chosen with an eye to their likely standard as householders, very few serious repairs have had to be carried out. Most of the bungalows are as good to-day as they were when first occupied.

I am, etc.,

M. L. KEITH.

Housing Manager, Borough of King's Lynn.

Outdoor Plant at Nottingham

To the Editor of the A. & B.N.

SIR,—Abner, in your issue of September 10, under "Outdoor Plant at Nottingham" refers to his friend with strong views about wet work who wants a substitute for plaster.

There is one, of course, though it asks to be regarded as a material in its own right rather than a substitute. Need I do more than append the address from which I write?

I am, etc.,

BASIL MARRIOTT,

Technical Director,

Fibre Building Board

Development Organisation, Ltd.

COMPETITION FOR NEW STATE HOSPITAL, DOHA Persian Gulf

★ **FIRST:** - Premium £1,250 - JOHN R. HARRIS, A.R.I.B.A., A.A.Dip.(Hons).

★ **SECOND:** Premium £1,000 - ALISTER G. MACDONALD, F.R.I.B.A. and
ERIC D. MAIDMENT, A.R.I.B.A.

★ **THIRD:** - Premium £750 - Dr. C. FRANK, A.R.I.B.A.

REPORT BY THE ASSESSOR, ALEXANDER S. GRAY, F.R.I.B.A.

I HAVE carefully examined each of the seventy-four designs submitted by competitors. The standard is high and the designs indicate a considerable knowledge of hospital planning and a close study of the particular problems presented by the competition. Many of the designs would make very fine buildings appropriate to the locality; most of them are extremely well drawn and the reports well presented. In most of the entries the ward units are well arranged and sited but with few exceptions the arrangement of the ancillary departments of the hospital is confused, leading to difficulties in the working of the hospital.

I have no hesitation in awarding the first place to design No. 58; of all the designs submitted this offers the best solution to the problem. The ward units are particularly well planned to afford good supervision and economy in working while they are sufficiently compact for air-conditioning without detriment to good cross ventilation. The planning of the single bed wards to avoid sun and glare is ingenious. The placing of the Operating Theatres and X-Ray Department in relation both to the Wards and the Out-Patient Department is good, but the planning of the Kitchen Department needs some improvement to avoid through traffic. The boiler house should be placed near ground level. The buildings are well arranged on the site, and the entrances conveniently placed. The hostels and houses are well planned and related. The design gives the accommodation asked for and the cubic extent of the buildings (amounting to a total of 1,474,950 cubic feet) indicates an economical first cost. The construction and specification proposed allow economical use both of local and imported materials; the character of the buildings as indicated would be most appropriate to the architecture of Doha.

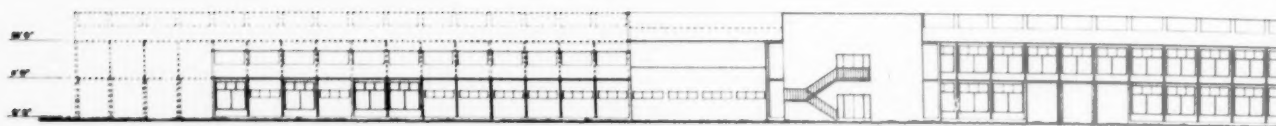
Design No. 50 which I recommend for the second premium is developed upon more open lines and is I consider the best of several designs of this type in which the buildings as a whole are particularly pleasing and suitable. Each department shows much study and invention but there is not the same clarity in the arrangement between them. The required accommodation is provided and the cubic extent indicates a building at reasonable cost.

The third premium I have awarded to design No. 40; all wards are given a northern aspect and the elevations are simple and attractive.

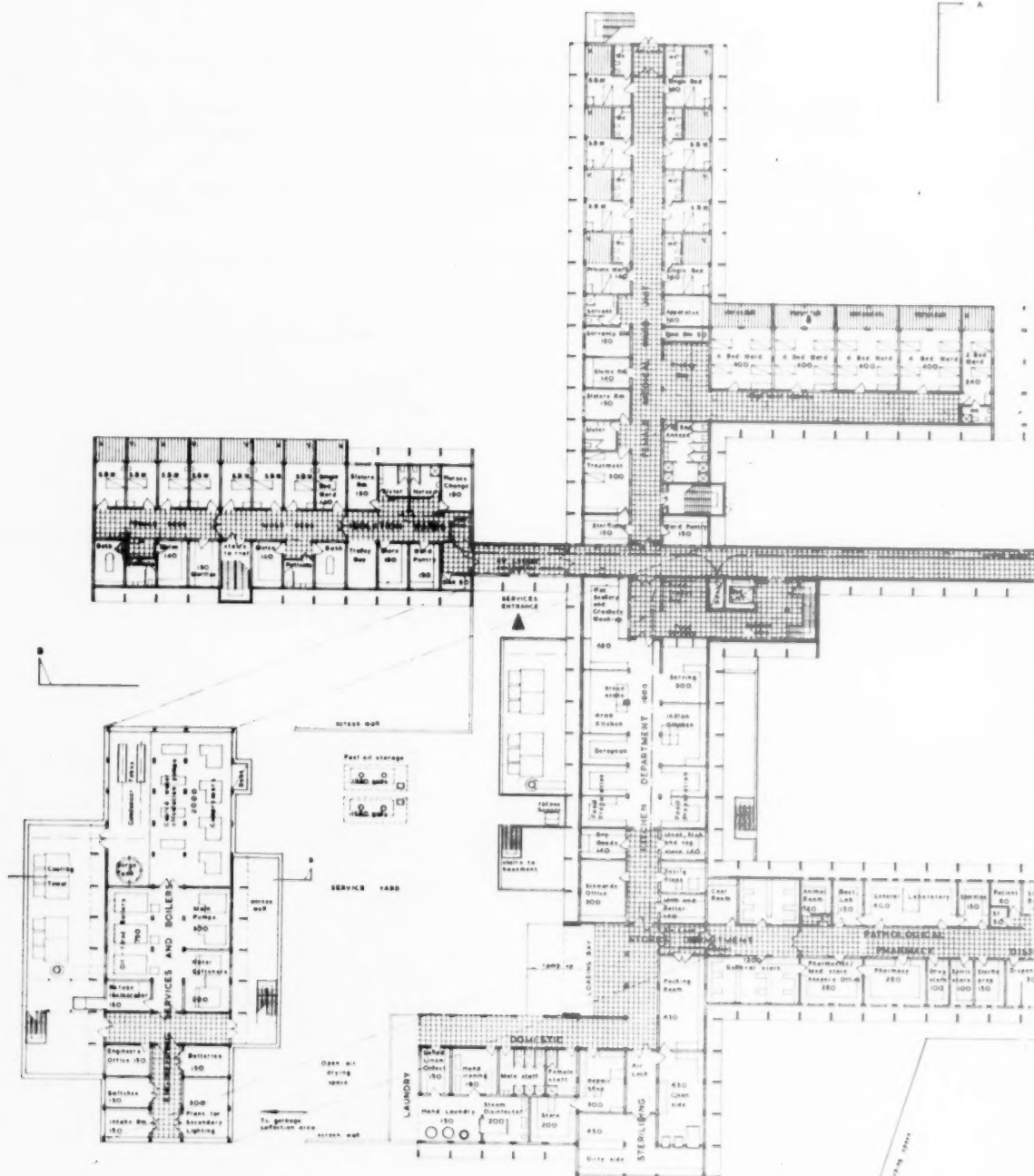
Perspective by F. Evans of the winning design.

This was not a competition drawing



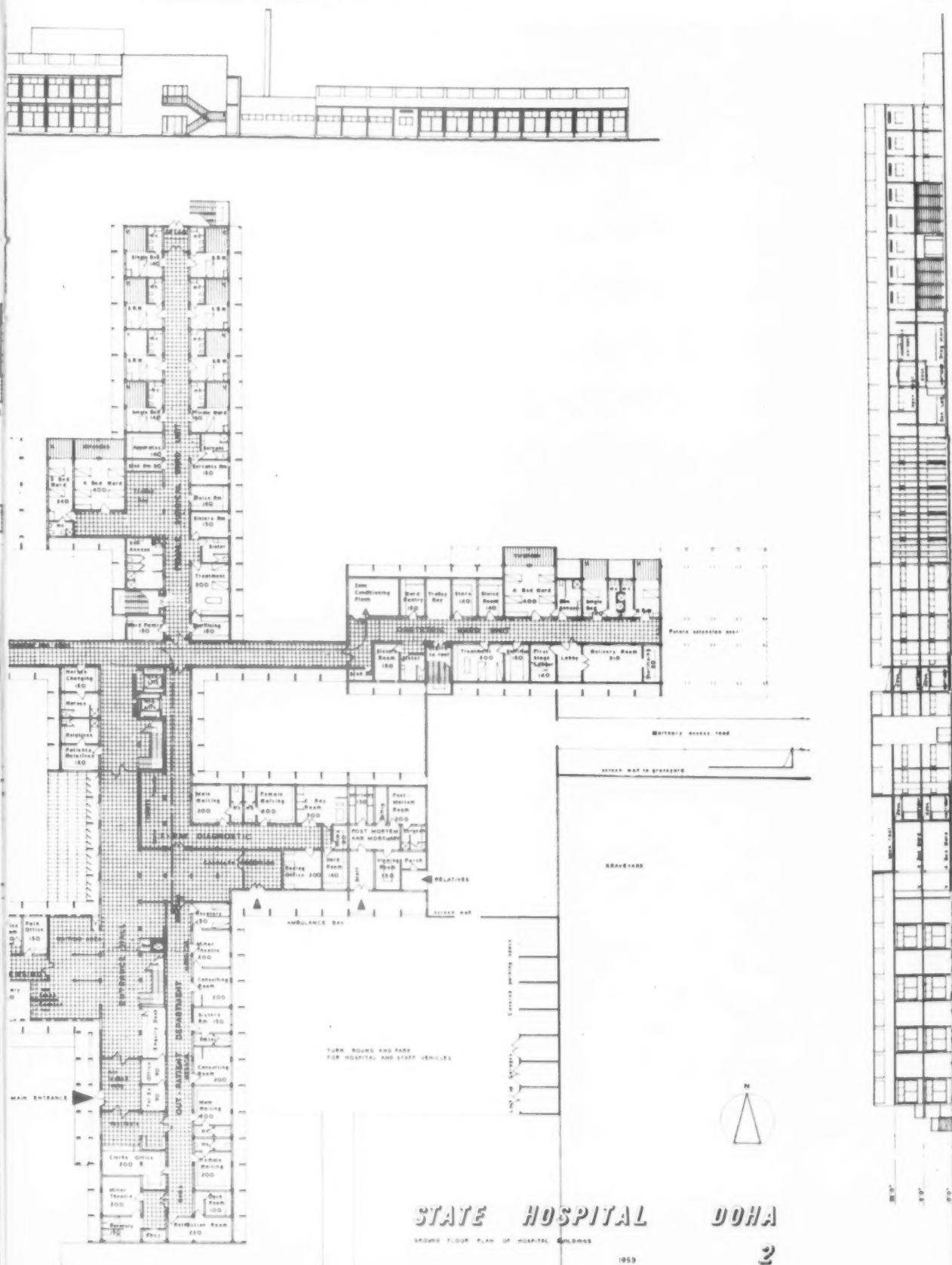


姓名：_____ 学号：_____



06-09-2008 09:00

DESIGN AWARDED FIRST PREMIUM
BY JOHN R. HARRIS (continued on page 337) Scale: 48ft. = 1 inch





A model of the flats

Eleven-storey Flats for Coventry

TILE HILL

NEIGHBOURHOOD UNIT

DONALD GIBSON, C.B.E.,
City Architect

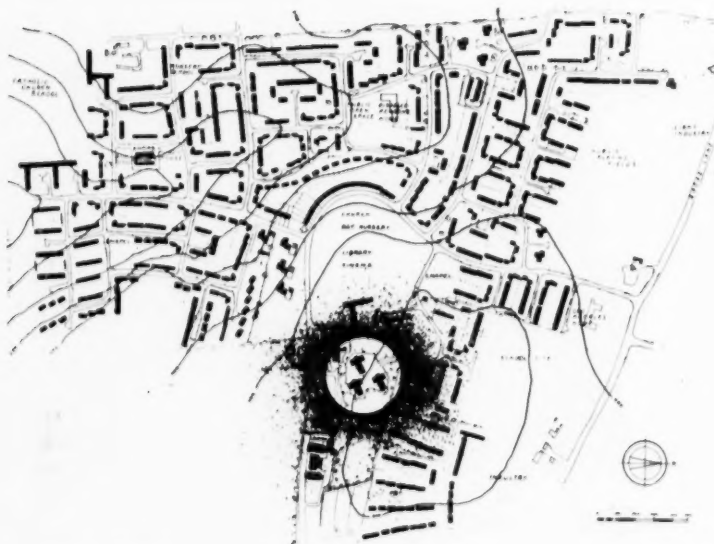
FREDERICK POOLEY,
Deputy City Architect

Principal Assistant: E.C. Tory

Chief Assistant: George Grey

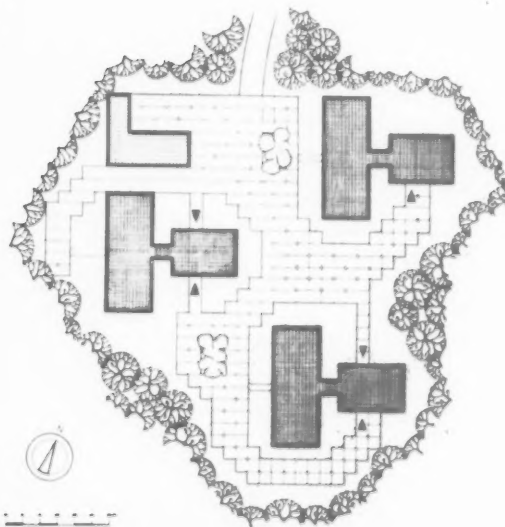
THE Coventry City Council has given approval to a scheme for the erection of three blocks of eleven-storey flats in the Tile Hill Neighbourhood Unit. Each block will contain 33 flats and will be built in the centre of the woods around which the neighbourhood unit has been built.

Messrs. G. Wimpey & Company Limited are to be the contractors and the flats have been designed by the City Architectural Depart-



Site Plan

Layout of three-point blocks and cycle store





UPPER FLOOR PLAN



GROUND FLOOR PLAN

Plans and Elevations of the flats

ment to take the fullest advantage of their constructional system.

No-fines panels will form permanent shuttering to R.C. beams and stanchions which have been arranged in the simplest possible manner. The repetitive use of large shutters lifted by a tower crane is reflected in the plan form.

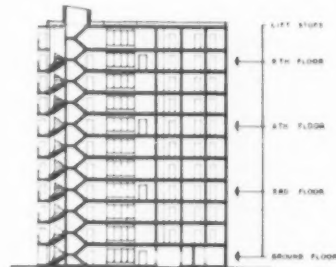
Warm air from Weatherfoil cabinets provides background heat to all rooms, domestic hot water is constantly available and each flat has a small washing machine and drying cabinet.

In order to economize in expensive lift machinery the skip-stop system has been extended and lifts only stop on the ground, 3rd, 6th and 9th floors.

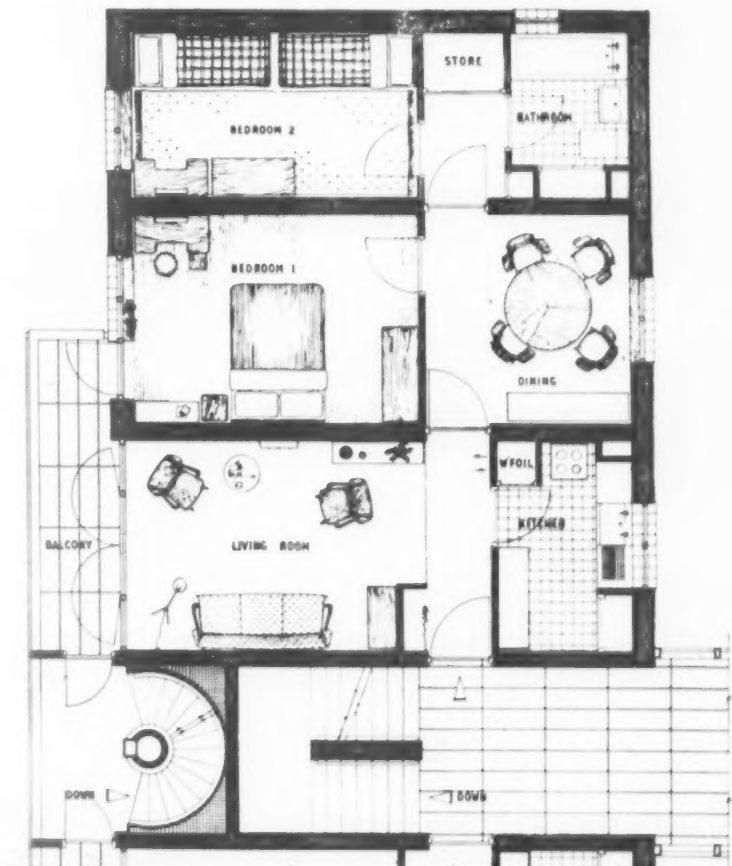
Work on this project is expected to begin within a few weeks and the whole scheme is estimated to be completed within eighteen months.



WEST ELEVATION SOUTH ELEVATION



CROSS SECTION





General view of whole school. The section built first is on the left. The main entrance is to the left of the tower. To the right of the tower are the dining rooms with library above and, in the lower buildings, extreme right, are the two gymnasias, which have very fine floors of Ekki strip.

The Sir Thomas Jones County Secondary School AMLWCH, ANGLESEY

COUNTY ARCHITECT : N. Sq. JOHNSON, A.R.I.B.A., A.M.T.P.I.

ARCHITECT-IN-CHARGE : KENNETH M. RAW, A.R.I.B.A.

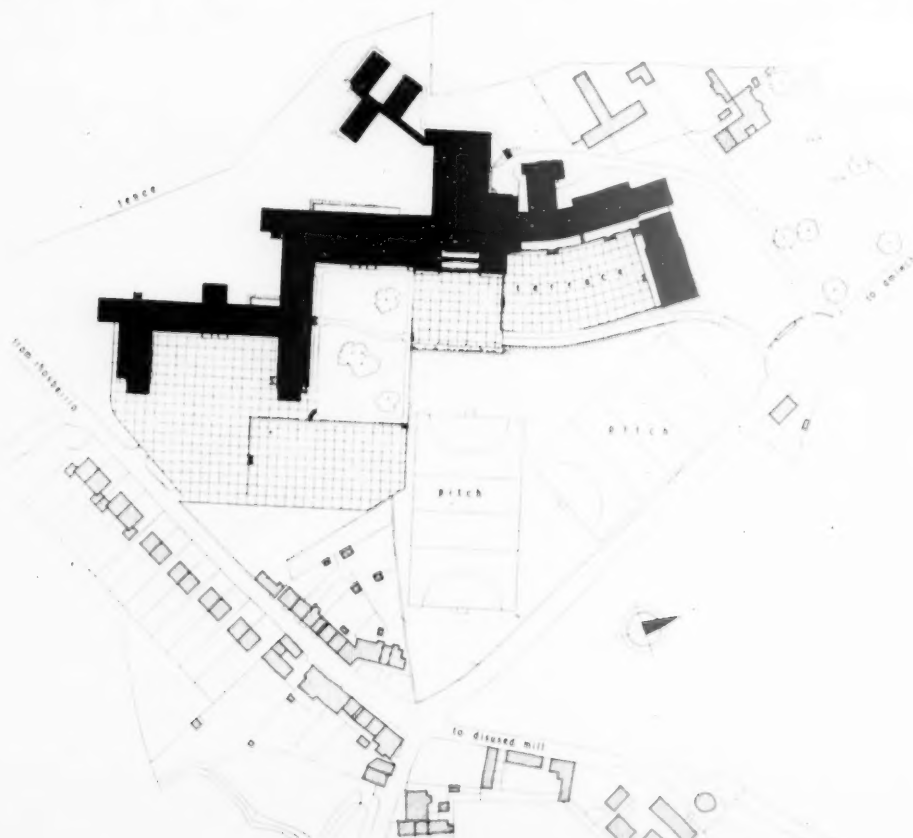
Quantity Surveyors : L. C. Wakeman & Partners

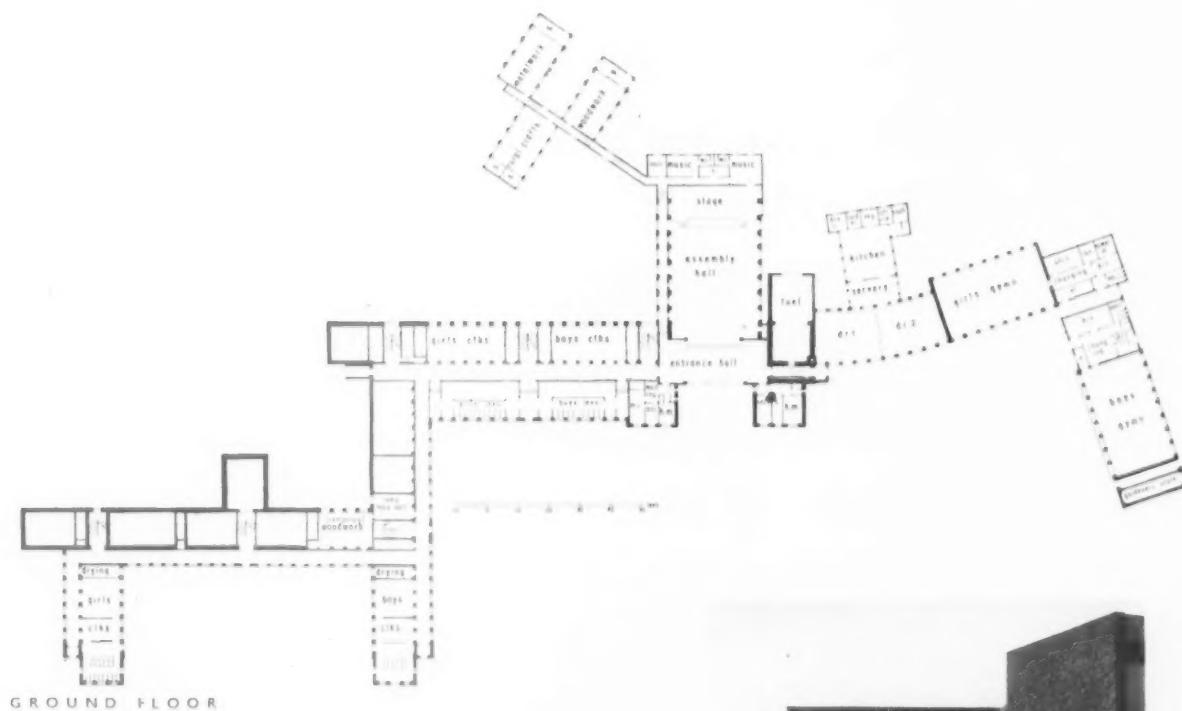
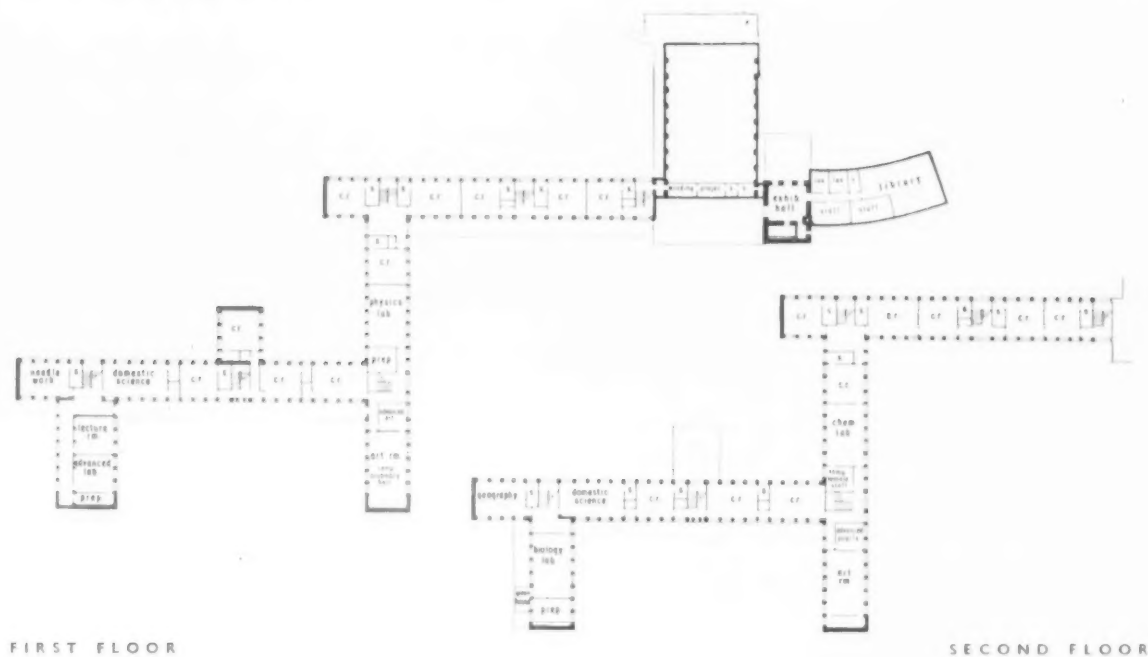
THE visitor to Anglesey can travel hundreds of miles over the twisting network of the island's bumpy roads and lanes and almost feel that he is back in the days of feudalism. The predominant architecture, if it can be so called, consists of churches, vicarages, large country houses and Welsh-type cottages. Most of these buildings are

dilapidated. Many of them illustrate that even slate roofs in a wind- and rain-swept island such as this have their limitations—hence the cement slurry so frequently seen.

Recent architecture consists chiefly of housing of varying æsthetic quality.

It might be thought that development would have taken





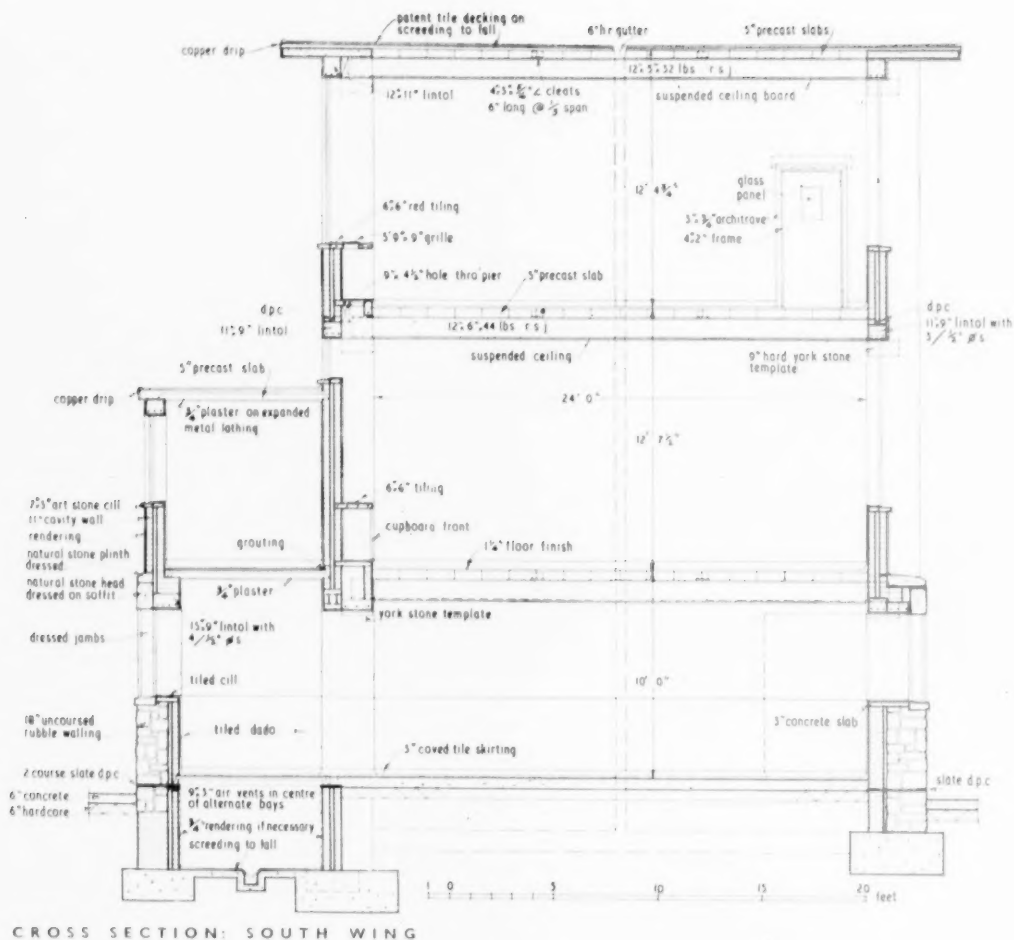
place along A5, the main London-Holyhead road. But there is little development as yet in the island. It comes as a surprise, therefore, to find on the northern coast of Anglesey a little town which in a small way at present is setting an example in progress.

Between the wars there was built the R.C.R.C.—Roman Catholic Reinforced Concrete Church. Since the war there

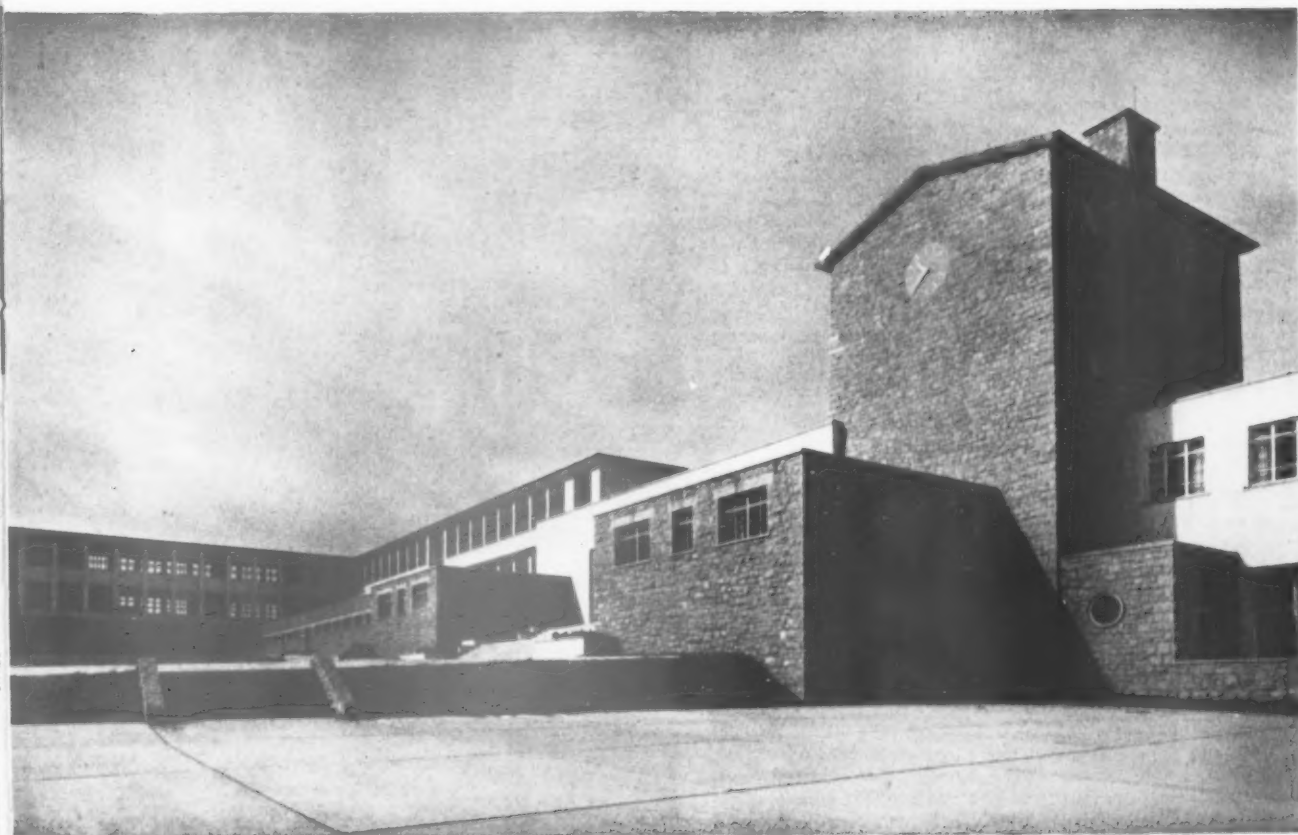
[Continued on page 334]



The main entrance gates



A view of one of the courtyards in the centre of which is one of the glazed staircase features. In the right of the picture is the town of Amlwch and the sea.



Detail of the tower at the base of which is the headmaster's suite.

Detail of the main entrance on the first day of term. Group of students on steps flanked by flower boxes. Stone-faced tower with clock face of Moelfre stone. In the right of the picture one of the two gymnasias.



Sir Thomas Jones School, Amlwch, Anglesey

Continued from page 331

has developed a considerable industrial site, to which new railway lines run through the town. Colour has made a welcome appearance in recent local housing work, and now there has been completed the new County Secondary School which stands on a high crest overlooking the town and the Irish Sea.

The school has been built in three instalments and was designed in 1948 in accordance with the regulations then in force. The first instalment was occupied in 1950; the second in 1951, and the whole school was completed and formally opened by the Minister of Education in June this year.

The Site

The area covered by the buildings and playing-field areas is 35 acres. The site is divided by a road; to one side of this is the sloping ground on which the school is built; on the other, a flat portion reserved for playing fields.

Construction

The buildings are designed to follow the contours as far as possible. The plan is on an 8ft 3in grid with load-bearing brick piers carrying steel and prestressed concrete beams. The majority of the structure is three storeys high. The floors and roofs are of *in situ* concrete. Flat roofs are of Thermotile. The slightly pitched tower roof is copper. External walls between the piers are generally of 11in hollow construction in brick rendered externally. The combination of properly constructed hollow wall and external rendering is almost essential in this part of the world where heavy rainfall combined with strong winds produces conditions which can penetrate even thick granite solid walls.

In a building of this size and shape rendering alone would have looked stark and dull. Stone facings have therefore been used for gable walls, single storey sections and for the tower. In the latter is a clock of local Moelfre limestone—a material which works smoothly and takes a clean cut.

The country-wide shortage of trained masons is no less noticeable in the predominantly stone districts of North Wales than elsewhere, but with careful direction sound stonework can still be carried out where the money is available. In this case the coursed local stone has been used with hollow construction.

Planning

The main entrance foyer is approached by a wide flight of steps flanked with stone-edged flower beds. The foyer is lit by the glazed wall which forms the entrance. The floor is of cork; four circular columns painted dark blue flank the axis to the assembly hall. The walls are lined with natural Weyroc panels, "V" jointed and with the joints picked out in colour.

The assembly hall, which seats about 900 people, is on the main axis of the entrance foyer and divided from it by a folding glass screen which enables the foyer itself to be used in conjunction with the assembly hall on special occasions.

To the right of the entrance foyer stairs lead up to the library and staff rooms and down to the dining room, while the headmaster's suite is on the same level as the foyer.

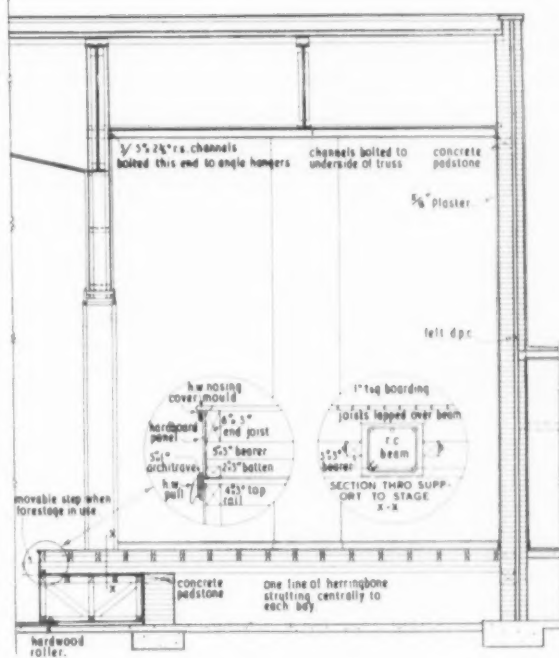
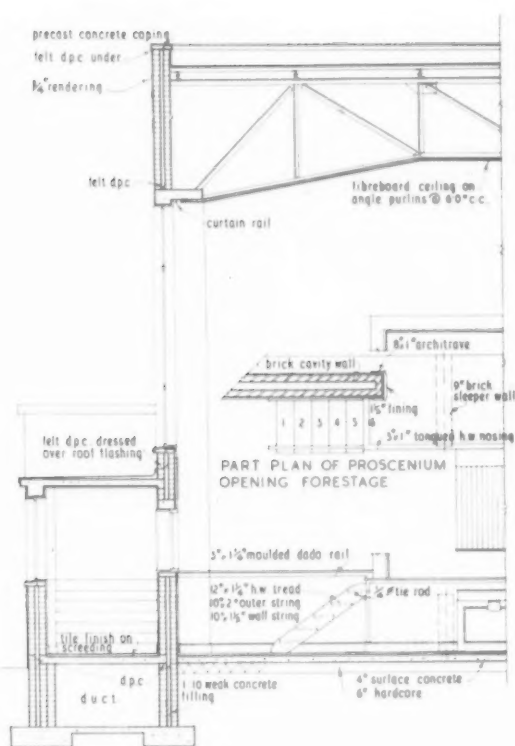
To the left of the foyer a wide corridor leads to the cloakrooms and lavatories and to the separate staircases which serve the teaching rooms on the upper floors. The cloakroom and lavatory accommodation is divided into two sections so that the school can, if necessary, be administered as separate junior and senior departments.

Classrooms are reached from the stair landings by intercommunicating doors so that every classroom is lit from both sides.

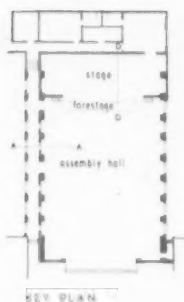


Above: A typical staircase with flower-box feature. Floors of stairs and corridors are of Terrazzo.
Below: Interior of entrance foyer showing main entrance doors (left) and beyond the entrance to the cloakroom passage (Group of pupils).





SECTIONS THROUGH STAGE AND PROSCENIUM



A general view of the assembly hall which has a woodblock floor. Stage and film apparatus are installed. The stage has sliding forestage. The stage front is faced with reeded hardboard.

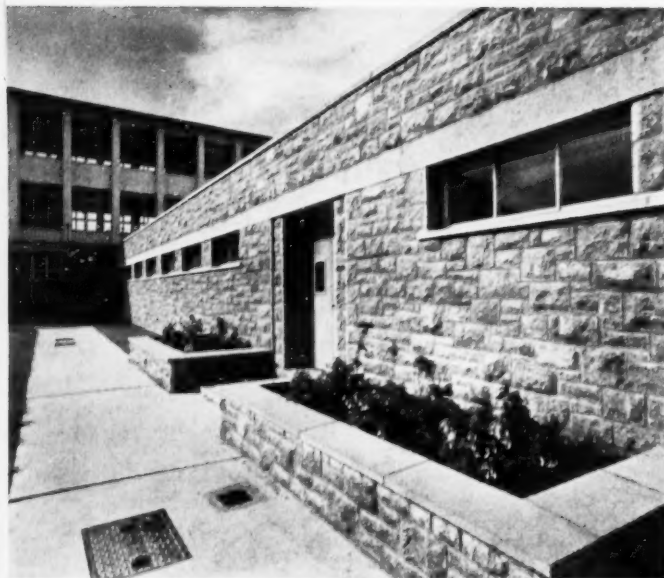
AMLCWCH COUNTY SECONDARY SCHOOL

General Contractors : Pochin (Contractors), Ltd.

Sub-contractors :

Artificial Stone: Liverpool Artificial Stone Co., Ltd. **Blinds:** Hills (West Bromwich), Ltd. **Clock:** Wm. Potts & Sons, Ltd. **Cloakroom Equipment:** Cloakroom Equipment, Ltd.; Fred Verity & Sons, Ltd. **Electrical Installation:** F. Hancock (1939), Ltd.; H. & E. Lintott, Ltd. **Electric Light Fittings:** Angley Plastic Products; Rich & Pattison (Bir'ham), Ltd.; Falk Stadelmann & Co., Ltd. **Electric Lamps:** Cryselco, Ltd. **Fire Extinguishers:** Fire Equipment, Ltd. **Furniture:** Pochin's (Manchester), Ltd.; Wake & Dean, Ltd.; Ayrton Graham, Ltd.; Vantage (G.B.), Ltd.; Motique, Ltd.; Angley Workshops, Ltd.;

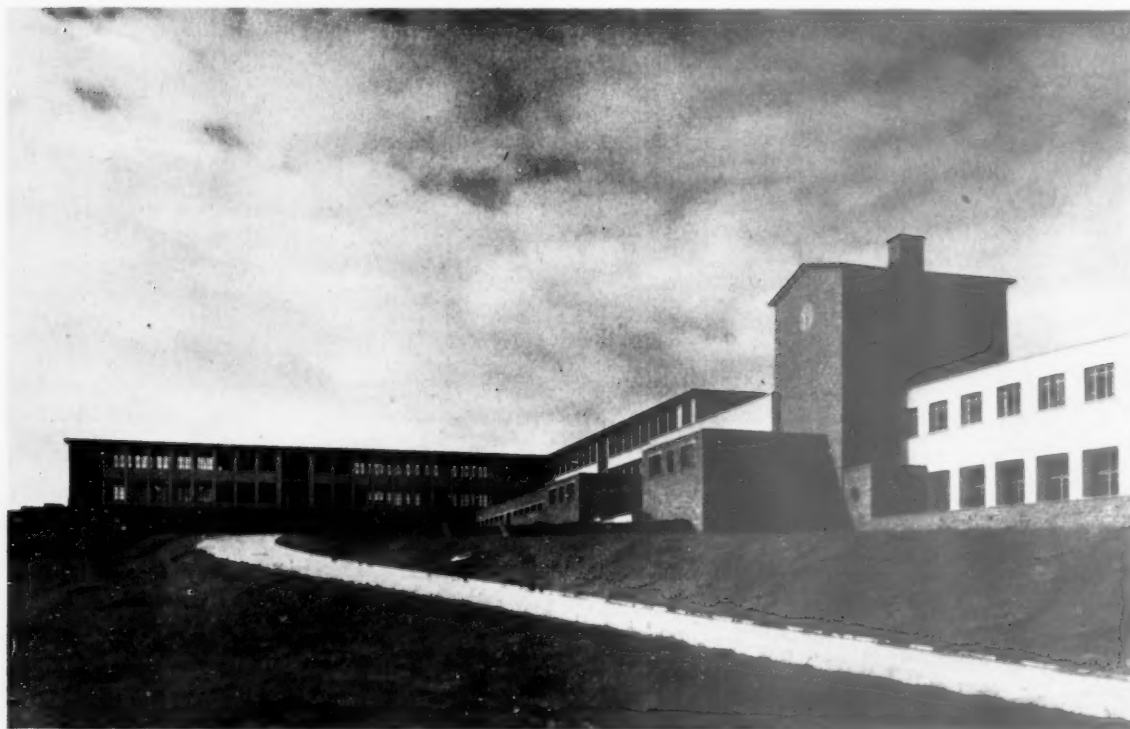
The Educational Supply Association; Remploi, Ltd.; Sacoloff & Co., Ltd.; R. A. Palmer & Co.; Kingfisher, Ltd.; Richard Orton & Co.; The North of England School Furnishing Co., Ltd. *Gas Installation and Equipment:* Wales Gas Board. *Gymnastic Equipment:* Niels Larson & Son, Ltd.; Spencer Heath & George, Ltd. *Heating and Hot Water Installation:* G. Dawson & Sons, Ltd. *Ironmongery:* James Gibbons, Ltd. *Kit Lockers:* Pochin's (Manchester), Ltd. *Lighting Conductor:* W. J. Furse & Co. *Metal Staircases:* Frederick Fox, Ltd. *Metal Windows and Doors:* Rustproof Metal Window Co., Ltd. *Paint:* The Walpamur Co., Ltd. *Precast Flooring and Roofs:* The Trussed Concrete Steel Co., Ltd. *Prestressed Beams:* Fram Reinforced Concrete Co., Ltd. *Revolving Shutters:* John Barker & Sons, Ltd. *Roofing:* D. Anderson & Son, Ltd. *Roof Lights:* J. A. King & Co., Ltd. *Sanitary Fittings:* The Associated Clay Indus-



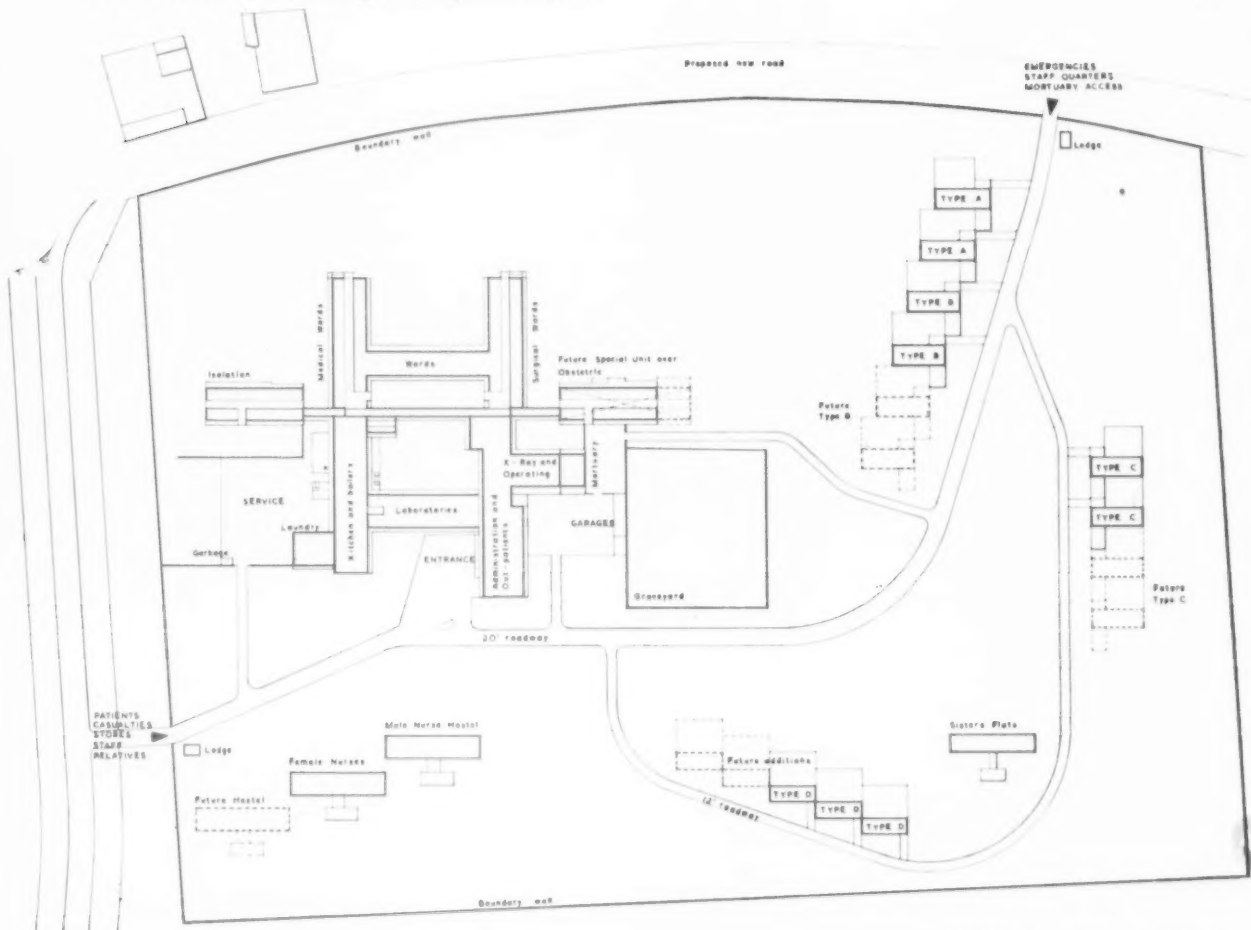
L : Detail of secondary entrance showing stone work and jointing. The copings to the contained flower beds are of concrete as are the window cills and heads. R : Entrance to boys' lavatories. There are no main doors to boys' and girls' lavatories. Privacy is ensured by the curved screen walls which are painted blue and lettered in white.

tries, Ltd.; J. & R. Howie, Ltd. Sliding Screen: Pochin's (Manchester), Ltd. Steelwork: Sherratt & Smith, Ltd. Tanking: Permanite, Ltd. Telephone Systems: Dictograph Telephones, Ltd. Terrazzo: Roman Mosaic, Ltd.; Terrazate Building Pro-

ducts, Ltd.; A. Quilgotti & Co., Ltd. Thermoplastic and Cork Floors: The Penmaenmawr and Trinidad Lake Asphalt Co. Wood Block Flooring: Pochin's (Manchester), Ltd. Wrought Iron Balustrading and Gates: I. G. Hughes; R. W. Jones & Sons.



Amlwch School : A general view of the main entrance front seen from the approach drive.



Winner's Site Layout

Design Awarded First Premium

Extracts from Architect's Report

by JOHN R. HARRIS

THE Hospital is placed on the western half of the site in order that ward blocks planned on the northern side of the Hospital may command views towards the sea. The Hospital itself being on the town side of the site away from the aerodrome.

The living accommodation for families has been kept to the eastern side of the site, each house having a view towards the sea. The accommodation is separated sufficiently from the Hospital to have an atmosphere of its own. Games could be played in this area without undue risk of disturbance to patients.

The site has an entrance at either corner, kept clear of ward blocks. The main entrance (west) is intended primarily for access to the Hospital, whilst the northern entrance is intended primarily for access to the houses.

The Plan

The general principles affecting the plan of the buildings are:

- (1) It has been decided after much study to plan the Hospital two storeys in height.
- (2) Male and female separation is horizontal: female on the ground floor, male on the first floor.
- (3) The separation of the isolation block. It is felt this separation is desirable (although not now normal in this country), taking into account diseases in the locality.
- (4) All wards face north to the prevailing wind, away from the two entrances. The verandahs of the single-bed wards face east or west. These single-bed wards are pleasantly lit by reflected

light from the verandah walls (please see axonometric on p.340). In general the blocks have spine passages; where desirable louvres will be provided into the spine passage to give through ventilation. These louvres will be brought into use for recirculation of conditioned air, for which the spine passages will be used. The two- and four-bed wards have been so designed that opposite walls may be opened in winter or in emergencies to give through ventilation.

- (5) The buildings are planned on a 10ft bay of the non-load-bearing partitions, allowing alterations to room sizes to be quickly made if required in the future.
- (6) The kitchen department, together

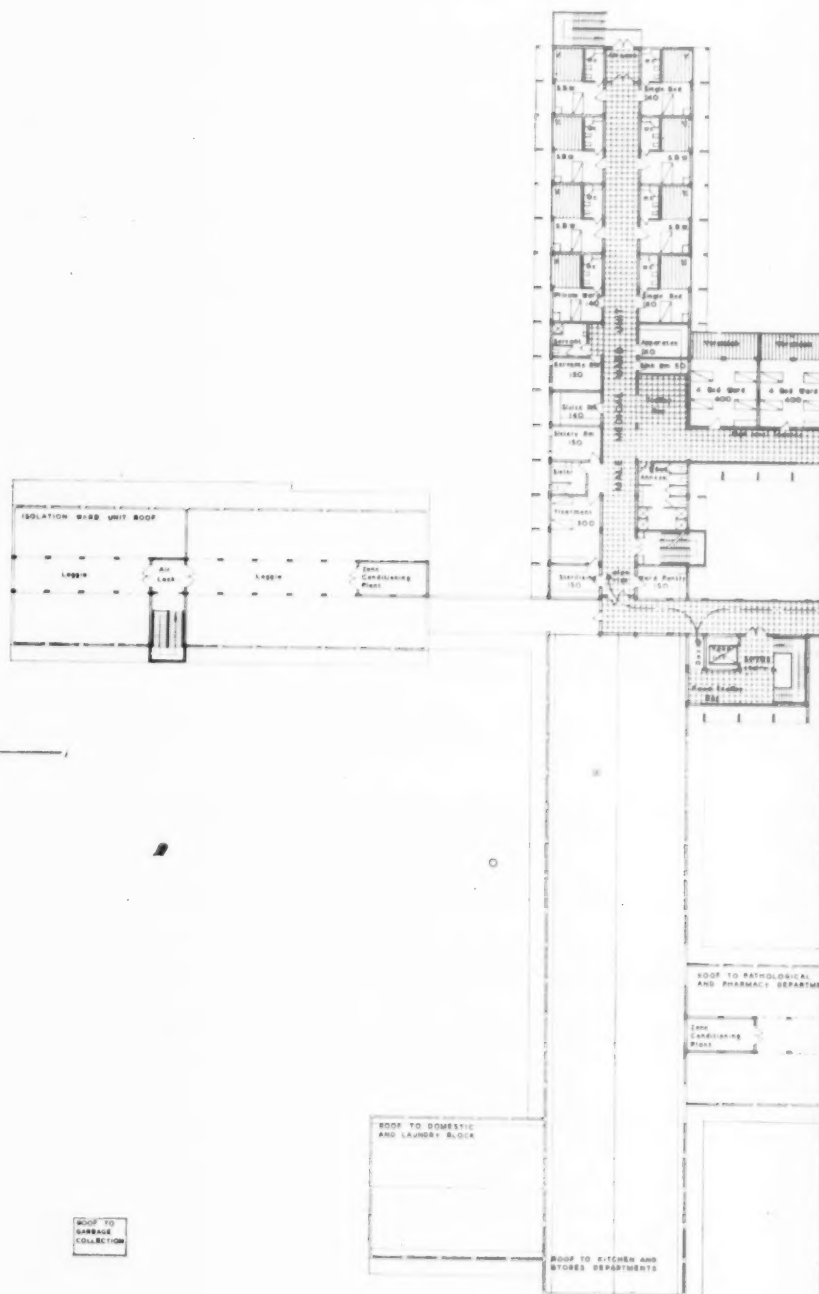
with the boiler house and flue, is planned on the south-west, lee-ward side of the Hospital.

- (7) It is intended that the medical block roof be used by male patients, surgical block by female patients. The isolation block has a roof divided into two sections, one for male and one for female; the obstetric block roof for those patients in this block; while provision is made for the staff on the pathological department roof. It is intended that the stairs to the roof in the two centre ward blocks respectively should be used in the case of the medical block by male patients only, and the surgical block by female patients only. In addition, these stairs are, of course, intended for fire escape in emergency.

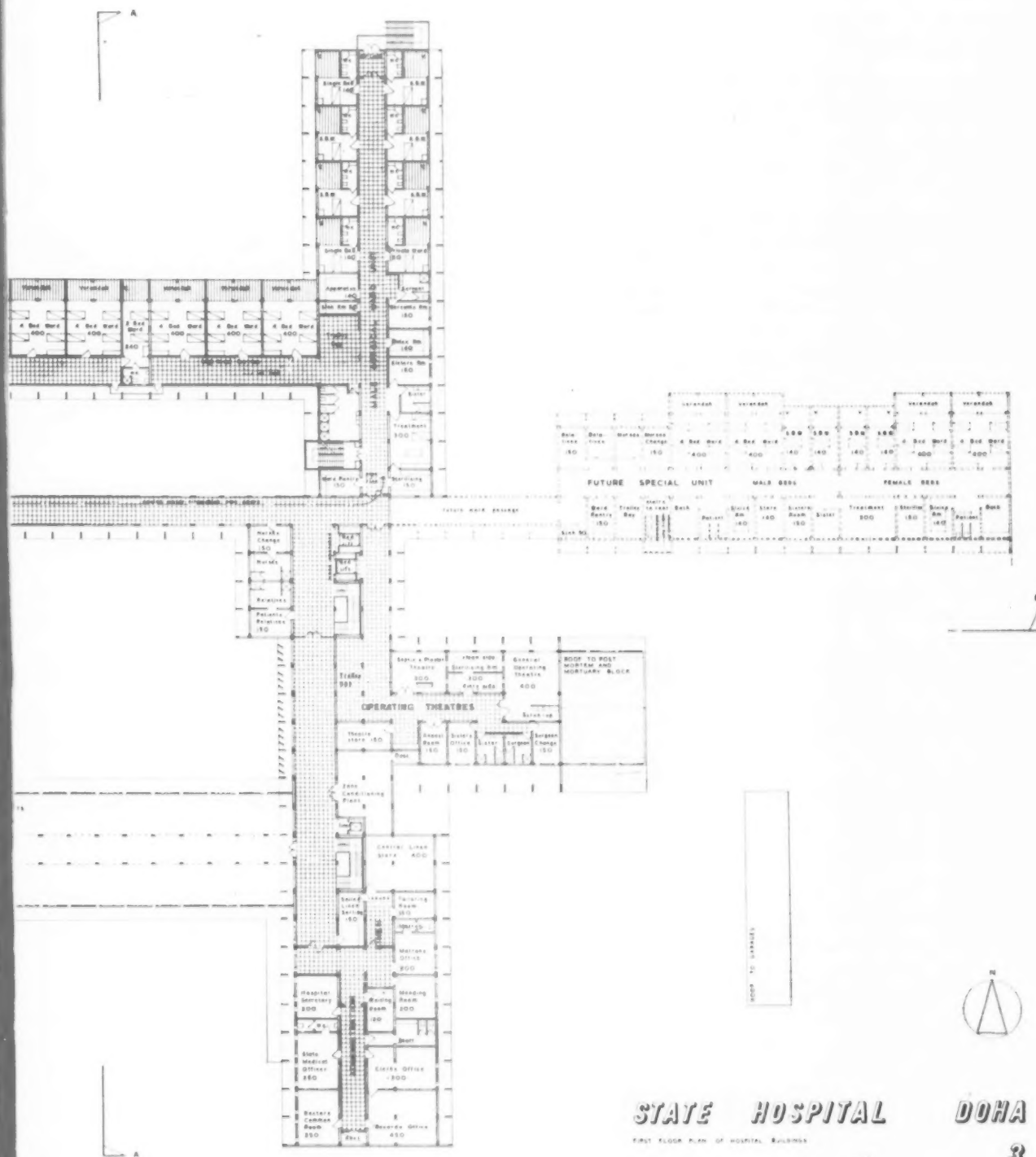
Air-Conditioning

It is proposed to install a central compressor plant for cooling water below the kitchen block. This chilled water is to be circulated by pumps round the Hospital via the ward passage duct. Each block will therefore be provided with its own air-conditioning plant, consisting of fresh air and main filters, cooling battery, fan and automatic controls. From these local fans, systems of ductwork would be run to the various rooms of the block via the sub-ceilings over the spine corridors. Recirculation would be via the block corridors themselves back to the zone plant rooms. This scheme, it is considered, would show a considerable saving over the central ducted system where the primary ducts in the case of the Hospital would be very large and could not be accommodated in the sub-ceilings. Further, the system proposed allows for flexibility of control, particularly required in the case of the operating theatre. In the winter the theatre would be heated by the zone air-conditioning plant, using the chilled water pipes to bring warm air to the plant in place of the normal chilled water.

[Continued on page 340]



DESIGN AWARDED FIRST PREMIUM



STATE HOSPITAL

DOHA

FIRST FLOOR PLAN OF HOSPITAL BUILDING

1953

3

By JOHN R. HARRIS

Scale: 48 FT. = 1 INCH

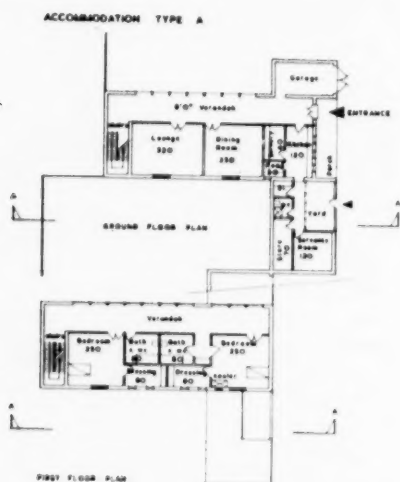
STATE HOSPITAL

DOHA : COMPETITION

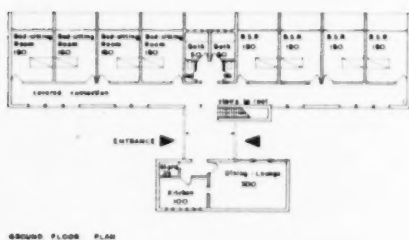
Continued from page 338

Machinery noise from compressors will be confined to the central plant room, which is placed reasonably far from the ward blocks.

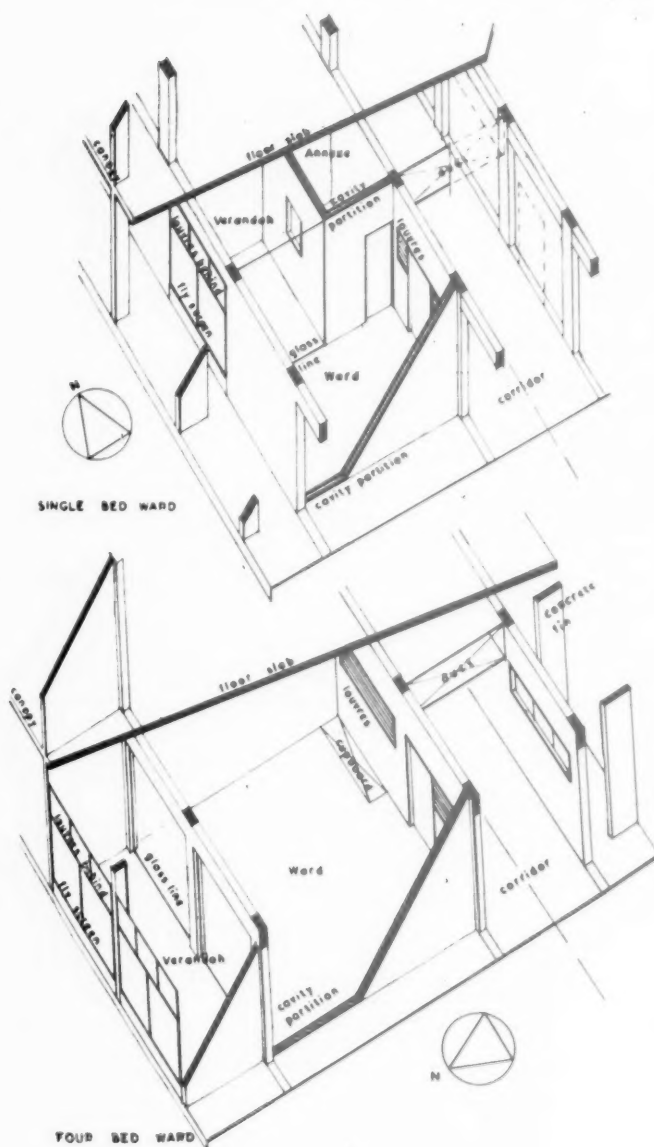
As an alternative to, or possibly in combination with, the proposed zone conditioning plants, unit air coolers could be used, supplied similarly with chilled water. This system might be preferable for certain cases where wards open on to verandahs and the loss of air through open windows would render the recirculation less effective. The unit cooler, being essentially a recirculation unit, would not suffer from this cause.



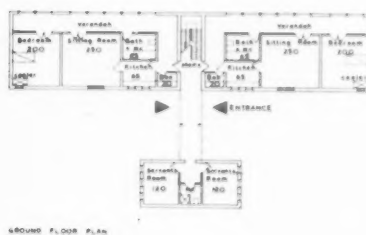
Example of accommodation.



Hostel accommodation — Nurses.



Diagrammatic projections of wards.



Sisters' flats (2-storey).

DESIGN BY JOHN R. HARRIS : AWARDED FIRST PREMIUM

Design Awarded Second Premium

by ALISTER G. MACDONALD and ERIC D. MAIDMENT

Extracts from Architects' Report

THE boundaries of the site have been condensed as much as possible in order to shut out, both aesthetically and physically, the sand and the broken stone grit of the arid landscape.

The hospital and its buildings stand within a walled "precinct," surrounded by its own tiled and paved terraces and large courts.

The hospital buildings are situated (a) to take full advantage of rising ground to catch the prevailing breezes (b) to gain an uninterrupted view of the sea from the ward units.

The residential quarters have been laid out in a manner traditional to this part of the world, i.e., one's property is walled in and one's home planned to look inwards in order to protect against glare and sandstorm. Living-rooms lead to paved courts with ornamental tiles and (let it be suggested) seawater pools. The few plants and shrubs which exist grow in ornamental pots and tanks, all as described in Eastern tales.

Some of the Medical Points

Male and female patients are in two separate groups. The patients' relatives' rooms have been placed at the main entrance and not within the ward area, to facilitate control. All Surgical and Maternity wards and the Operating Theatre are on the first floor. Two single wards are placed next to the Sister for use as acute bed wards. In view of the increasing link between Out-patients and X-ray these two

departments are placed next to each other in a much-ventilated unit.

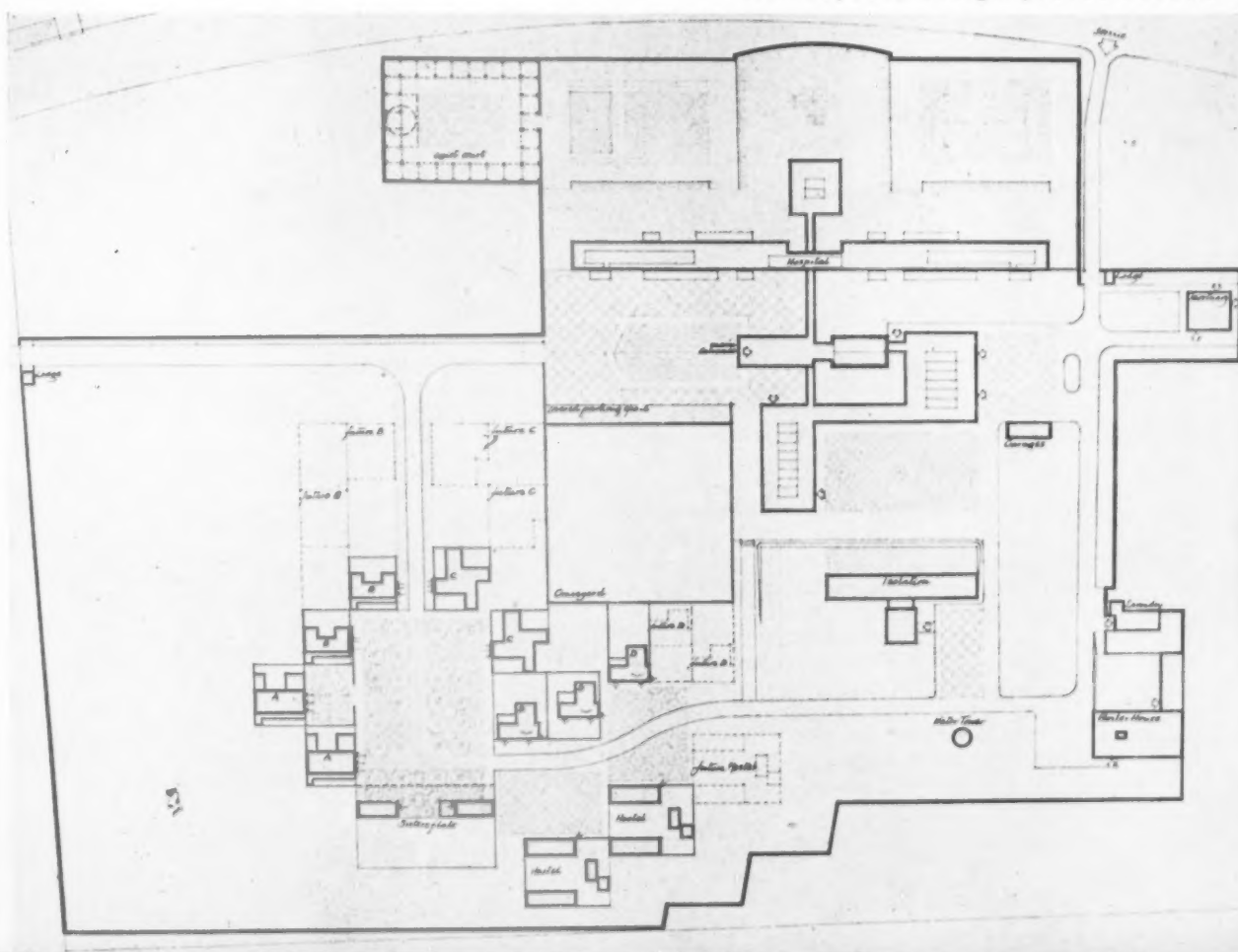
A Nurse's Station has been introduced into X-ray to which patients can report, thus enabling a Radiologist to study films in a room at the quiet end of the self-contained X-ray department.

A Nurse's Station has been introduced into the ward units for supervision of the ward corridor, especially at night, thus enabling the Sister's room to be near the entrance to the ward.

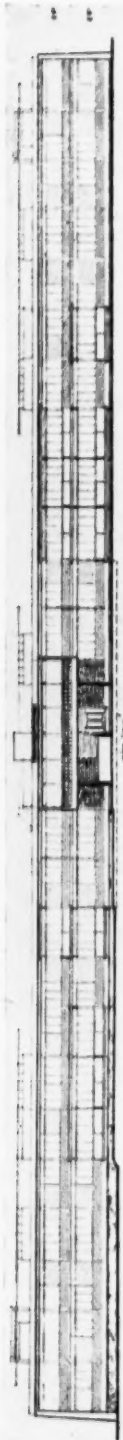
Air-Conditioning

The air-conditioning to the main wards would be from the centralized plant by means of service ducting below ground floor feeding up through vertical ducts which form part of the room division at ground and first floor. Each room would be so designed as to give the correct ventilation. The plant would be supplied with filtration suitable for conditions in this area. A certain amount of air would be recirculated as necessary. Chilled or warm water would be supplied to the washer. Sufficient refrigeration plant would be installed to provide the chilled water for the spray of the washer for the main wards and Operating Theatre plant.

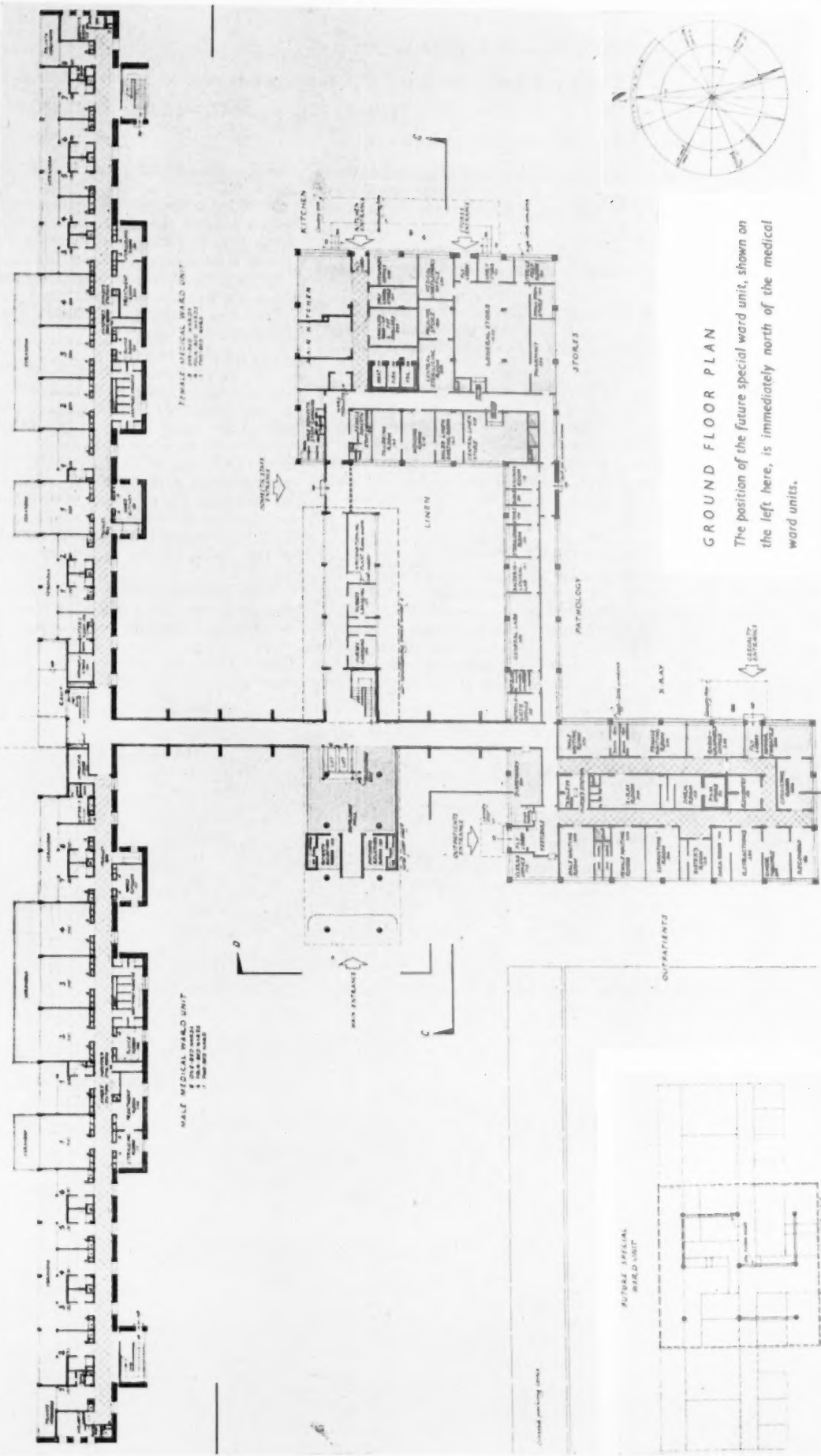
The Operating Theatre unit would be air-conditioned all the year round from a similar plant to that mentioned above, but entirely independent and having no recirculation. The plant is housed under the Theatre itself. The battery set for the emergency lighting in the Theatre is provided in a room off the Theatre air-condition plant.

Site layout, design placed second

North
Elevation

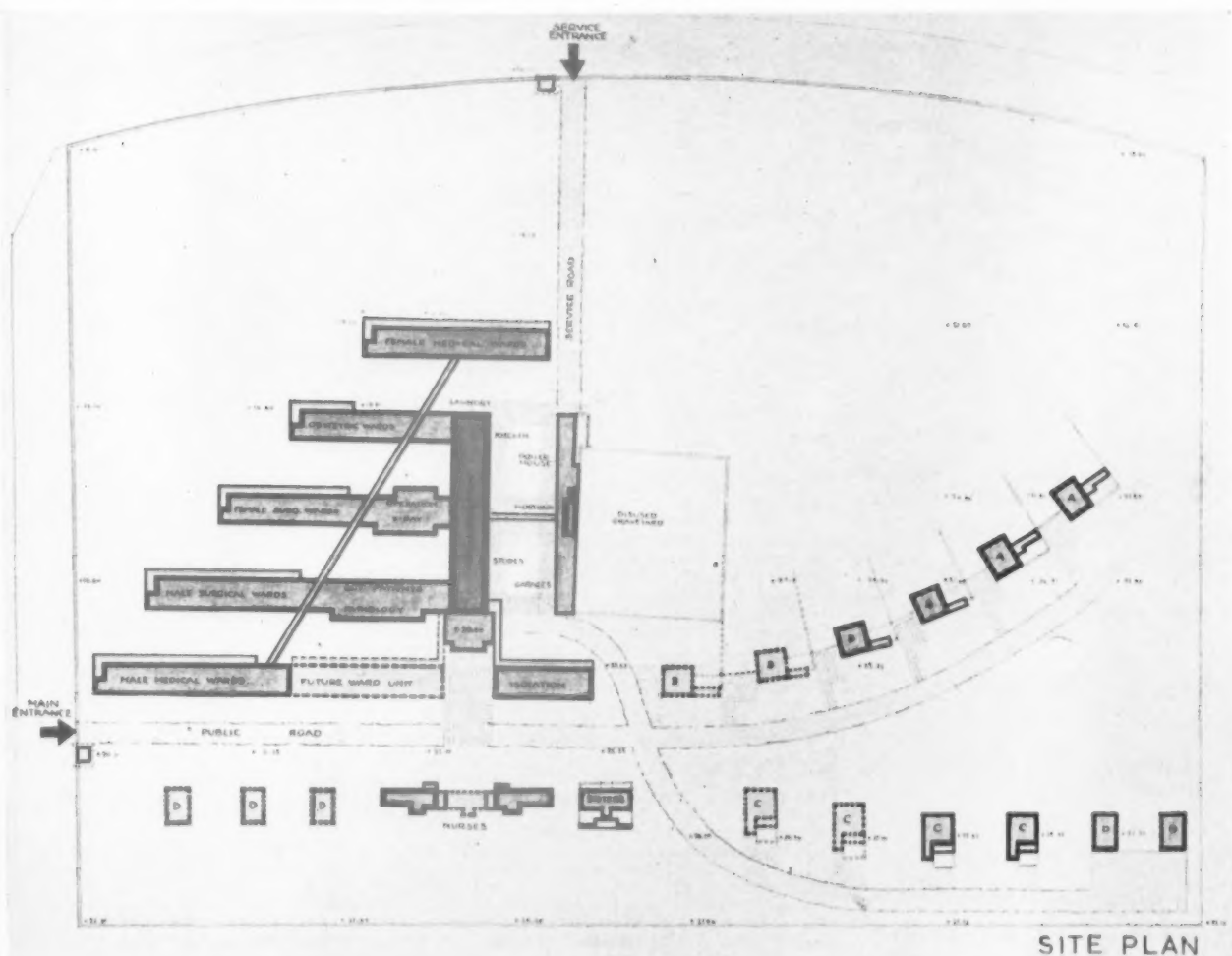


STATE HOSPITAL DOHA COMPETITION. DESIGN AWARDED SECOND PREMIUM



GROUND FLOOR PLAN

The position of the future special ward unit, shown on the left here, is immediately north of the medical ward units.



Design Awarded Third Premium

by Dr. C. FRANK

Extract from Architect's Report

THE relation of the town of Doha to the site seems to indicate the Western part of the ground as an appropriate position for the Hospital. The Eastern part, in particular the higher ground to the South-East, has been allocated to the residential accommodation in a loose and open grouping.

The direction of the sun, the view and the prevailing winds combine to make the Northern aspect the desirable orientation, with a slight deviation towards the West suggested by a view over the sea and the town. In order to provide this aspect to all bedrooms, and the benefit of the view to the majority of them, an open planning has been adopted by which the five wings housing the ward units run East and West with the wards facing North and the ancillary rooms facing South. The different size and length of the ward units suggested a staggered arrangement of the blocks in order to free the view towards the North-West, and this has been further emphasized by the planning in detail. Within this open form of planning all the main departments

are combined in one coherent building as required by the conditions. For reasons of internal circulation the laundry has been added to this group.

Two entrances have been provided to the site. The same representative approach, for the public, visitors, out-patients and staff, has been arranged in the West boundary and leads towards the main building from the South, exposing the view of the building to the visitor as he approaches. This access is continued towards the residential quarters. The service entrance is provided in the Northern boundary wall and approaches the building from the North and West, and terminating in a wide courtyard on which kitchen, laundry and, opposite, the boiler house and the electrical plant are situated. This approach, which is visually separated from the main entrance by the building itself, is to serve the mortuary in the first place. In addition, however, all circulation which one might prefer to be kept apart from the public approach, such as the delivery of fuel, medical and kitchen stores, and the transport of casualties, will take this road.



Building Plant

*Recent Developments in the Design of
Plant seen at the M.O.W. Exhibition
at Nottingham, from 3rd—9th September*

MANUFACTURERS of building plant and equipment from all parts of the country exhibited at the Goose Fair Site, Nottingham, last week. The exhibition, which also included apprentice competitions, demonstrations of plastering by local students, some films of building techniques and a display, Nottingham, Past, Present and Future, put on by the City Council, was opened by Hugh Molson, M.P., Parliamentary Secretary, Ministry of Works, who was introduced by the right worshipful the Lord Mayor of Nottingham, Councillor Christopher Coffey, J.P.

Among the many interesting features shown were a new $\frac{1}{2}$ -inch barrel to fit the Superdynamic Power Driving Tool by F. H. Bournier & Co. (Engineers), Ltd., which permits the driving of $\frac{1}{2}$ -inch diameter pins to a controlled depth in almost any material, including brickwork, steel and concrete. The Flexible Drive & Tool Company were showing an electrically driven chisel for fine carving on stone; also a concrete vibrator of the "Poker" type which could be used to operate many other useful tools through an easily connected flexible drive.

Two tower cranes were shown, both rail mounted, one the Wild-Fawcett No. 1, the other a prototype by Wickham Engineering Co., Ltd.; on view for the first time, it is claimed to be the first all-British design of a crane of this type. Mills Scaffolding Co., Ltd., showed a suspended scaffold designed to be hung from the tops of buildings, the height of the platform is regulated by winches manually operated; Kwickform, Ltd., were showing their Unit Frame system.

Dixon Hawkesworth, Ltd., were showing several of their well-known range of site plant and included two newly developed models, a $5\frac{1}{3}$ concrete mixer with a totally enclosed drive that gives an intermittent rotating action which it is claimed gives a far superior mix, the other is a 3ft 6in non-tilt mixer. Both models are offered with either petrol or diesel motors; fast towing wheels are optional. The Cheshire Engineering Co. were demonstrating the hole boring machine that recently bored 100 holes 12ft deep and 14 inches in diameter in planned positions in one day. Suitable holes for short bore piles can be drilled at the rate of 80-90 a day with augers varying in size from 9, 12, 16 and 20 to 24 inches in diameter.

New dumpers were shown by Aveling-Barford, Ltd., Wickham Engineering Co., Ltd., and Thwaites Agricultural, Ltd., who have mounted on the front of their 10 cu ft model a miniature dozer blade suitable for back filling trenches and other light scraping. A new plaster-applying machine was shown by the distributors, H. Hirst (Sheffield), Ltd., called the Trautsch.

Prototype tower crane by Wickham Engineering Co., Ltd. Railmounted, electrically driven, loading 25kW, 400 volts, 3-phase supply. Will lift one ton 110ft, jib radius 60ft, price approx. £4,500.



Earth Borer, Cheshire Engineering Co., Ltd.

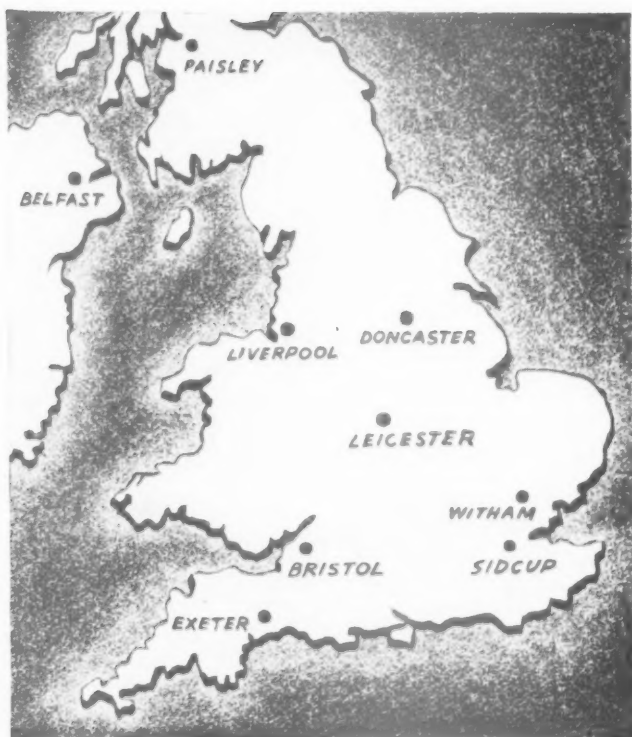


Trautsch plaster-throwing machine, W.52



5½-cwt. Crane Hoist, Wickham Engineering Co., Ltd.

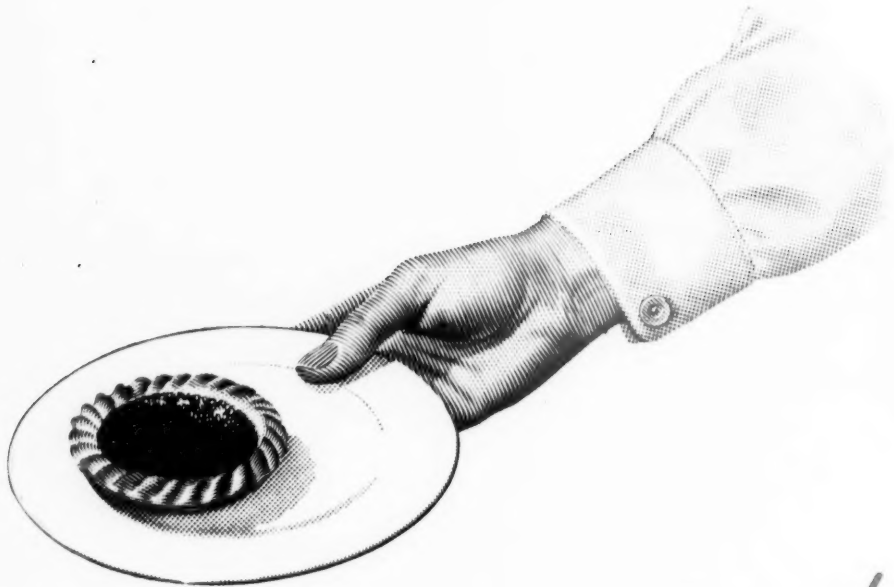
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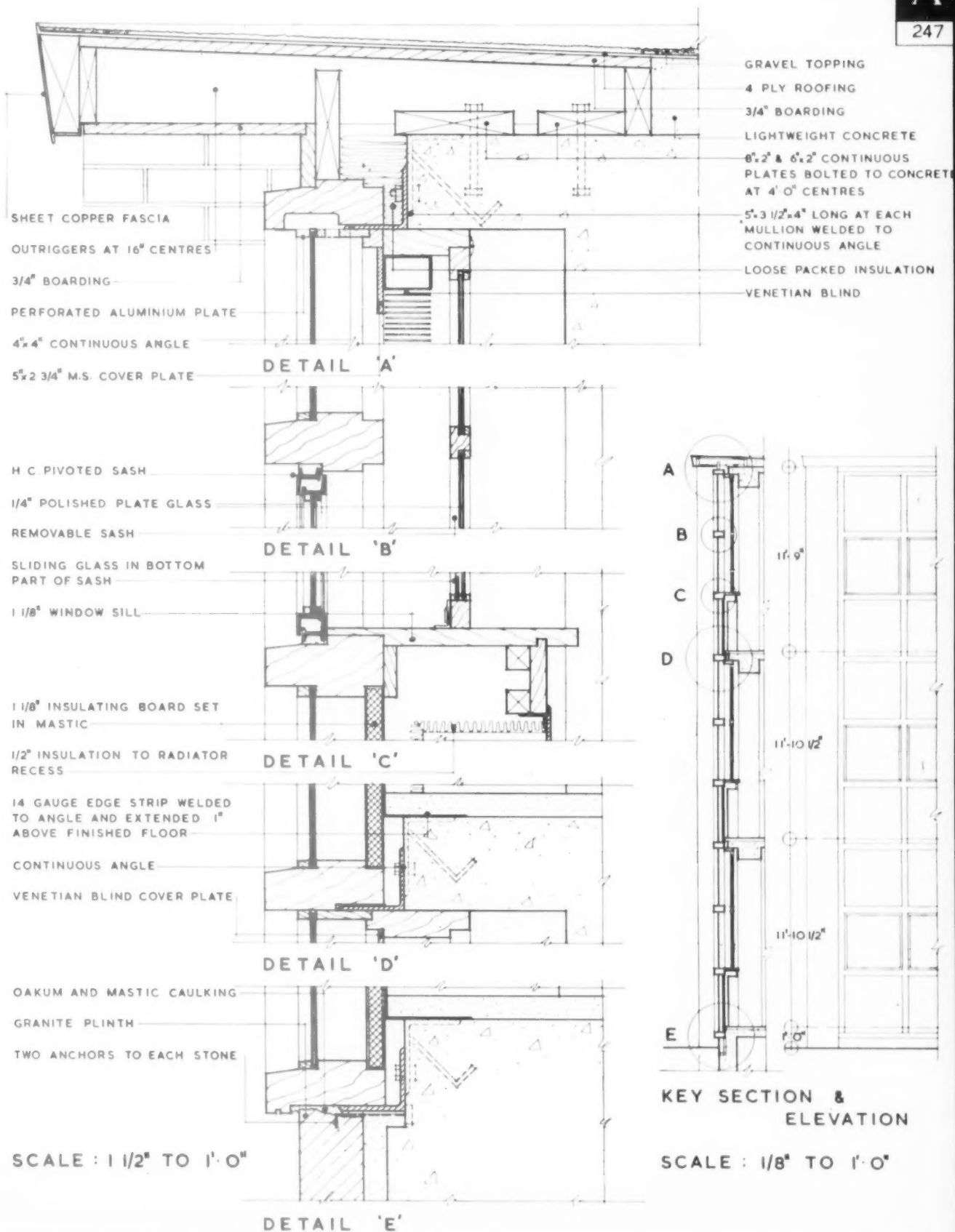
THE ACOUSTIC CONSULTANTS AND CONTRACTORS

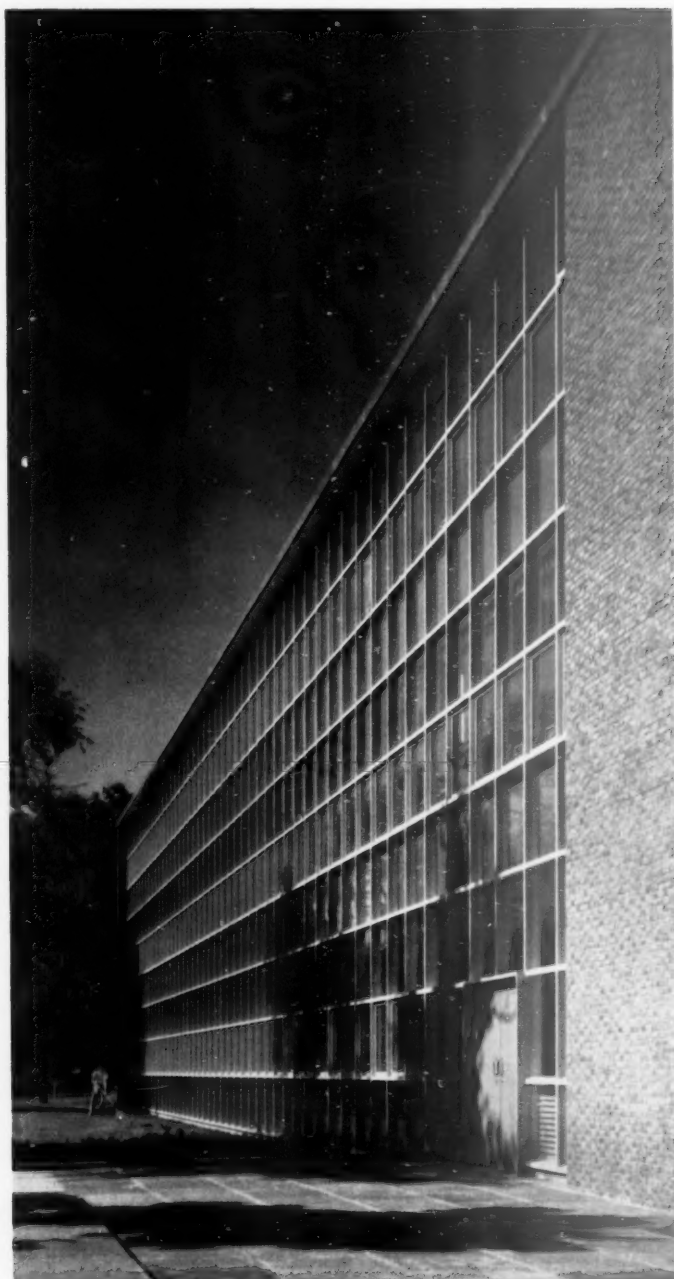
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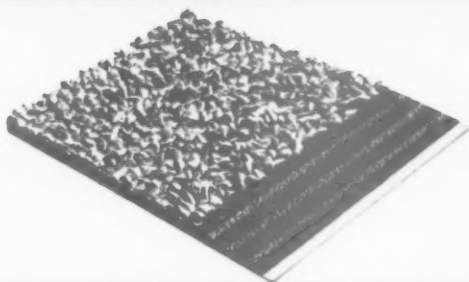


HORACE W. CULLUM & CO. LTD., FLOWERS MEWS, LONDON, N.19. Telephone : ARC 2662-3-4-5

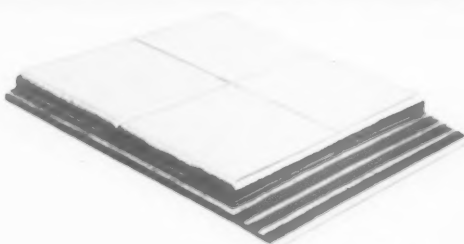




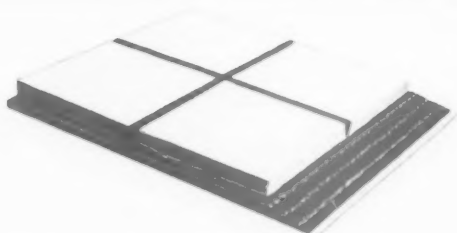
LABORATORY, HARVARD UNIVERSITY
ARCHITECTS:
COOLIDGE, SHEPLEY, BULLFINCH AND ABBOTT



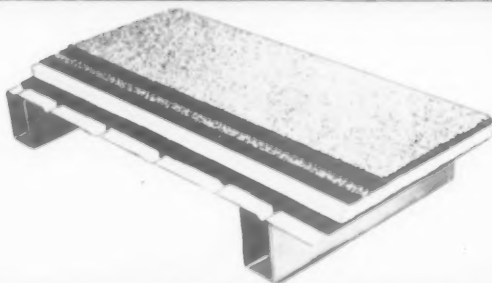
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*Hospital Ward*

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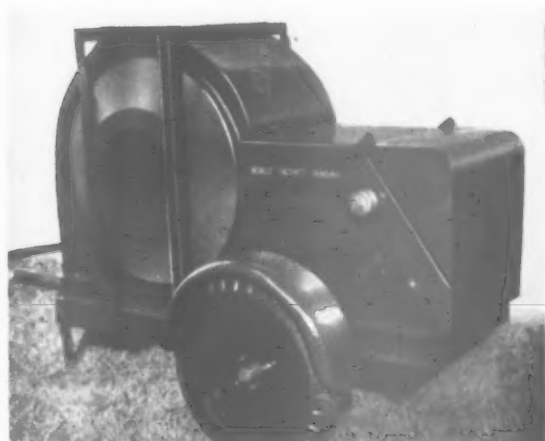
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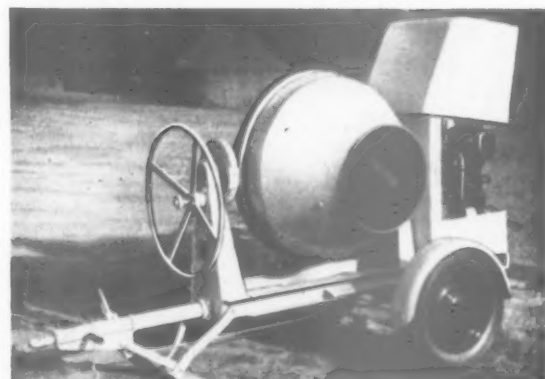
T. & W. FARMILOE LIMITED, ROCHESTER ROW, WESTMINSTER, LONDON, S.W.1 Phone: VICtoria 4480



Non-tilt mixer, Dixon Hawkesworth, Ltd.



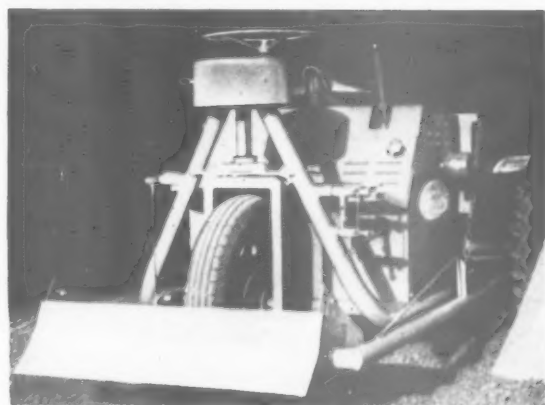
Vibromix concrete mixer, Dixon Hawkesworth, Ltd.



7.5 Maximixam concrete mixer.



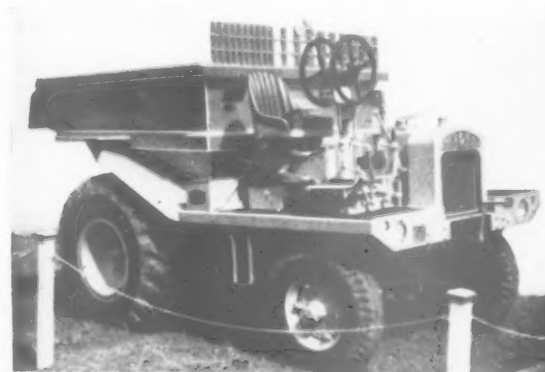
One-man trench digger, Cheshire Engineering Co., Ltd.



Dumper-dozer, Thwaites Agricultural Engineering Co., Ltd.



Maintenance grader, Aveling-Barford.



4 1/2 cu. yd. Diesel shuttle-dumper, Aveling-Barford.



Light 13 cu. ft dumper, Wickham Engineering Co., Ltd.

MOSAICS



SERVICES PLUMBING B4 15

An aluminium alloy captive plug, distributed by A. D. Foulks Ltd., Lionel Street, Birmingham, it can be fixed without tools in a few seconds but cannot afterwards be removed manually. The rubber sealing ring is protected by a brass cap: a special model is made for wastes that do not have a centre hole and costs 6d extra. Price 4.6d each.

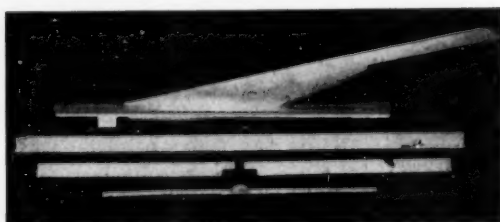


PLANT GAUGES E9 2

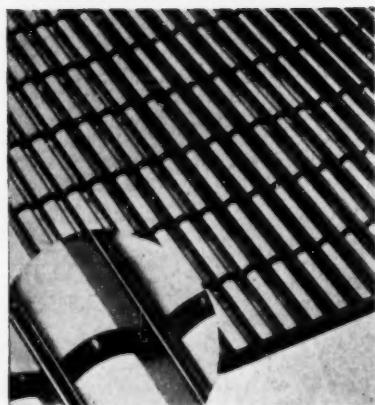
The Aqualév, an instrument which is based on the principle that water finds its own level, is simply two short lengths of glass tube with a long length of light rubber hose filled with water connecting them. It is an inexpensive substitute for a dumpy level and it is capable of comparing levels separated by obstructions at any distance. The glass tubes are sealed with adjustable valves which, when they are opened, allow the water at each end of the rubber tube to come to the same level.

Made in 20, 30, 40 and 60ft lengths for 25, 32, 38 and 49 shillings respectively. Extra rubber tube can be bought at 5 shillings for 10ft. Made by Austin & Trimmingham, 58 Warwick Gardens, London, W.14.

Slate and Asbestos Cutters Ltd. of 10 Fairbourne Road, Tottenham, N.17, make and supply the asbestos cutter illustrated. Rigged up on a couple of scaffold boards with the two short lengths of angle as end stops and the long length as a side guide it can easily be operated by one man, cutting the full length of an 8ft sheet in about 10 seconds. Weighing 18lbs, it will cut thin sheet metal and hard-boards, etc. Price £11, carriage paid.



PLANT HAND TOOLS E3 28



STRUCTURES FLOORING A10/6

Rodlock Steel panels by Chamberlain Industries Ltd., Staffa Works, Leyton, E.10 are suitable for both floors and stair treads, and have been designed to give maximum transmission of light and ventilation whilst providing the greatest margin of structural safety.

The panels consist of longitudinal mild steel bars at 1½ in centres connected by transverse rods ½ in diameter at 4½ in centres. The M.S. bars vary in section according to the span and the loading. The rods which are threaded through the bars are pressed into a "U" shape the centre of the "U" being level with the tops of the bars. Standard width is 2ft, maximum length is 18ft.

INDUSTRIAL NOTES

● More than three times as many firms are being invited to take part in the London section of the 1954 British Industries Fair than have ever been approached before.

In former years about 9,000 firms, mostly previous exhibitors, have received somewhat formal invitations to take space in the London sections of the Fair. But 30,000 manufacturers all over Britain have now received letters from the Board of Trade Controller in their area and each letter was accompanied by specially prepared sales material giving them much more information about the Fair and what it has to offer than has ever been sent out previously.

Regional Offices of the Board of Trade, which is responsible for the London sections of the Fair, are this year, for the first time, using their resources and local knowledge on behalf of B.I.F. They will make a special approach to every firm which, on receiving a preliminary letter, shows any desire to know more about the Fair. Staff with experience of each particular industry's requirements at the Fair will be available at the B.I.F.'s London headquarters to give specialized assistance and advice where it will be specially helpful.

This year also there are two radical changes in the method of reserving space, both of which have been adopted to help the manufacturer. First, plans are being prepared showing the actual sites available in each trade section, and intending exhibitors will be invited to choose the location they prefer instead of having to apply for so many square feet of space and leaving their exact position to be decided by the organizers after all applications have been received. This new method of selling specific sites instead of space means that the first to apply will obtain the best sites. Secondly, applications will be handled by specially trained staff in Board of Trade Regional Offices so that the firm gains the benefit of readily available advice and assistance on the spot.

Potential exhibitors are being reminded that the cost of showing at the B.I.F. is much less than that of comparable displays at other big trade exhibitions.

Not only will the first applicants be able to choose the best sites but exhibitors who delay their space booking until after the middle of October may be too late to be mentioned in the advance catalogue. Twenty-five thousand copies—a record number—of this list of exhibitors and their products will be distributed well in advance of the Fair to business men all over the world. In previous years many exhibitors have secured valuable enquiries and orders from publicity in this catalogue before the Fair even opened.

● A new Stud Welding Organization has been formed recently to operate as a separate entity within the Crompton Parkinson group of companies. Its purpose is to co-ordinate the sales and engineering facilities for both the Nelson and Cyc-Arc ranges of equipment with the object of providing a comprehensive service for present and future users of stud welding equipment.

Mr. F. Foster, M.Sc., A.M.I.E.E., is General Manager of the Stud Welding Organization, with Mr. R. W. Taylor, A.M.I.E.E., M.Inst.W., as Sales Manager (Home).

THE FAMOUS Alborough GARAGE

AND OTHER PREFABRICATED CONCRETE BUILDINGS

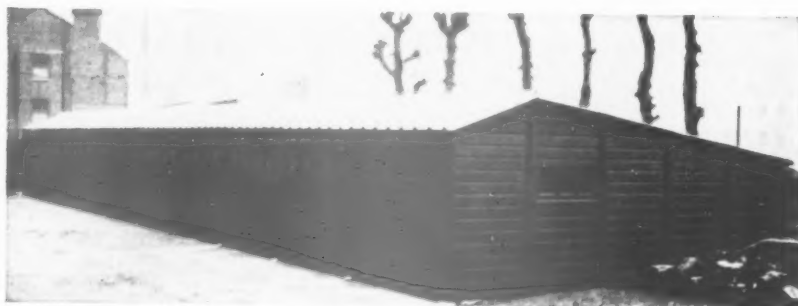
"ALBOROUGH" BUILDINGS EMBODY THESE CHARACTERISTICS:—

1. PERMANENCE because they are concrete.
2. SKILLED MANUFACTURE AND ERECTION AT MINIMUM COST because they are prefabricated.
3. THE CHARM OF THE TRADITIONAL TIMBER BUILDING WITH TEN TIMES THE LIFE—because they are "ALBOROUGH."

The "Alborough" method of prefabrication is based upon the tried and proved principle of post and panel units which time has shown to be the best. As posts and panels are assembled dry and all joints are sealed with a pressure gun application of mastic, any slight movement of the building over a period of years will not damage or interfere in any way with the structure.



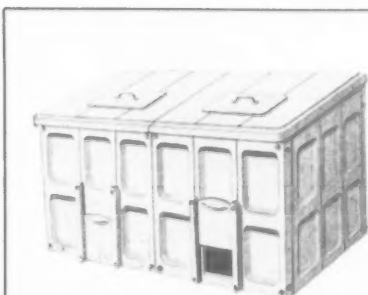
An "ALBOROUGH" GARAGE (Single Unit)



"ALBOROUGH" MULTIPLE GARAGES

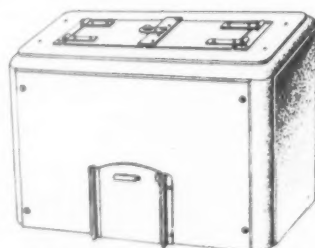
THE "ALBOROUGH" COMPLETE ERECTION SERVICE

"Alborough" prefabricated concrete buildings and garages are erected by the manufacturers themselves. Free plans and site survey and the use of skilled labour in the laying of foundations and erection ensure a comprehensive service which also includes the completion of all statutory obligations under the Town & Country Planning Act and local By-laws.



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"Alborough" prefabricated concrete units are specially moulded in such a way that "Alborough" Buildings, when treated with Alkali Resistant Chlorinated Rubber Paint, are equal in appearance to traditional timber construction.

ASSOCIATED BUILDING CONSTRUCTION DEVELOPMENTS (Raynes Park) LTD.
34/35 ALPHA ROAD, SURBITON, SURREY. Telephone: **ELMBRIDGE 6591/3**

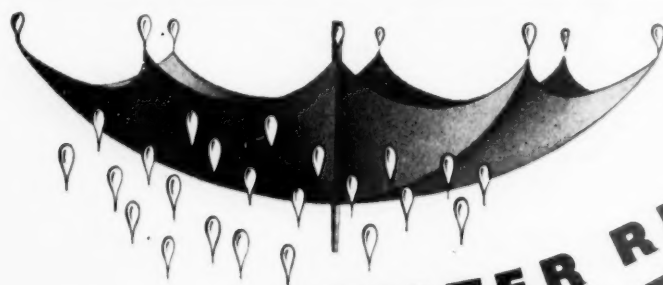
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General view from the north-west, showing (left to right): Assembly Hall, entrance link, primary cloakrooms and toilets with classrooms behind.

INFANT / PRIMARY SCHOOL, CLEETHORPES for the Lincoln (Parts of Lindsey) County Council

ARCHITECT: ALISTER MACDONALD, F.R.I.B.A.

ASSISTANT: J. W. DAVEY

Quantity Surveyors: William Saunders & Partners

Contract

The school was started at the beginning of 1951 (contract figure £38,000) and was completed in March, 1952. Local authority form of contract with quantities.

Site

The site is roughly triangular and bounded to N., E. and W. by the rear gardens of semi-detached housing; at the base of the triangle to the south the boundary was determined by the line of a proposed new main road from which access could not be taken. Entrance to the site was restricted to a narrow opening between houses on the north. The school has been kept well to the west of the site in order to allow room for a future junior school. Formerly used as allotments, the land was at the start of building operations flat and featureless and consideration has been given by the architects to landscaping and tree planting in conjunction with the building works.

Planning

The school accommodates 240 children and consists of two classroom wings about a common entrance and Assembly Hall (also used as a Dining Hall and having a fully equipped kitchen adjoining). The "entrants" wing for children of five is a self-contained unit comprising classrooms, cloak space and lavatories, with a separate playground including sandpit and climbing frame; the relationship of this wing to the rest of the school has been carefully studied with a view to providing intimacy and the scale suitable for young children.

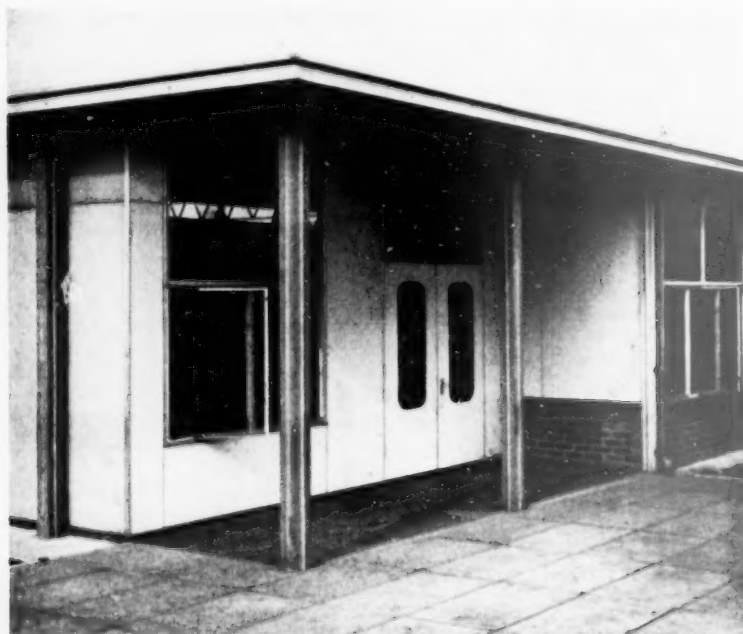
Each classroom has a small verandah on the south side with an outdoor teaching space away from the building surrounded by grass mounds planted with shrubs; the irregularity of the outdoor teaching spaces helps to relieve the bald flatness of the site. The classroom shapes internally have been planned to allow activities to be conducted in small groups rather than in formal classes, and the use of a

light non-structural wall permits this freedom of classroom planning within the main structural grid.

Construction

- (a) Framework: Hills "Presweld" Construction to 8ft 3in module. The 6in x 6in "Presweld" stanchions which consist of four angles welded to steel spacing pieces are filled with concrete, and a vertical fillet is cast at the junction of the angles on each side; where windows are fixed between stanchions, these fillets are shaped to receive the windows, thus eliminating the necessity for somewhat expensive pressed metal casings to stanchions.
- (b) Roof: Precast concrete with vermiculite screed and 3-ply bituminous felt covering.
- (c) External screens: 1½in "Holoplast" panels filled with glass silk for insulation (colour—pastel grey). The panels are erected independent of the stanchions supporting the roof, are restrained top and bottom and bedded upon 6in x 1in slate cills. Doors are also "Holoplast" and steel windows are incorporated in the assemblies. Limited use of brickwork has been made for textural contrast with the "Holoplast" cladding.
- (d) Internal partitions and doors: 1½in "Holoplast" panels filled with sand. In parts 1in "Compactite" hardboard-faced panels have been used. Where lattice beams occur above partitions there is glazing on both sides.
- (e) Flooring: Generally Magnesite in cloakrooms, corridors and lavatories, and wood block in hall and classrooms.
- (f) Heating: Low-pressure hot water.
- (g) Hot Water: Calorifiers with immersion heaters for boosting.
- (h) Wireless: Relayed to all classrooms from a central receiver in the staff room.

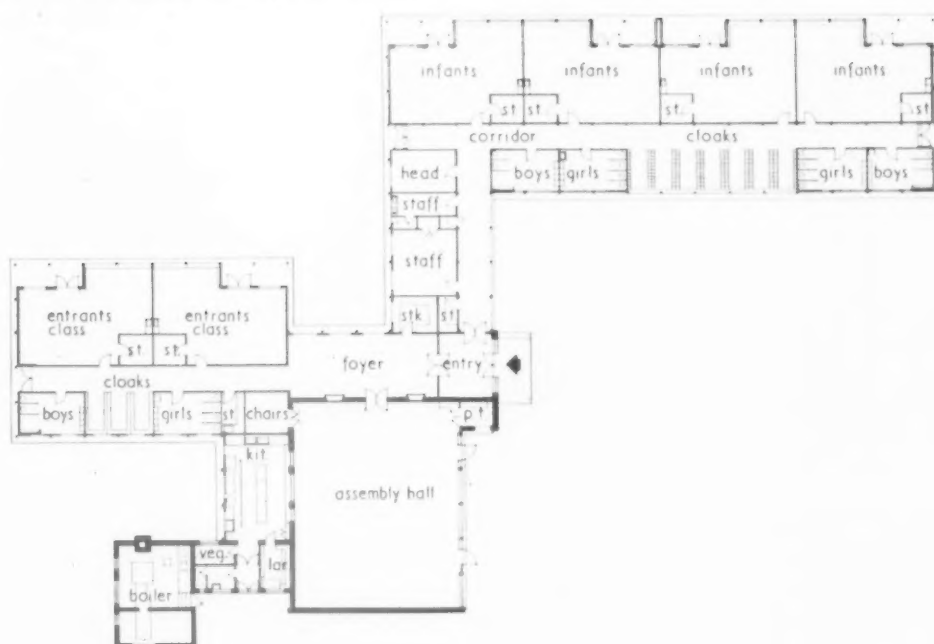
[Continued overleaf]



Close-up of the Assembly Hall. Textured brickwork used as a foil to the smooth precision of external cladding panels. The doors are from a single panel of Holoplast.

Small outside verandah facing south, produced by irregular interior shape of classroom and free placing of non-structural wall panels.

Welded steel stanchions are filled with concrete and four corner angles left exposed.

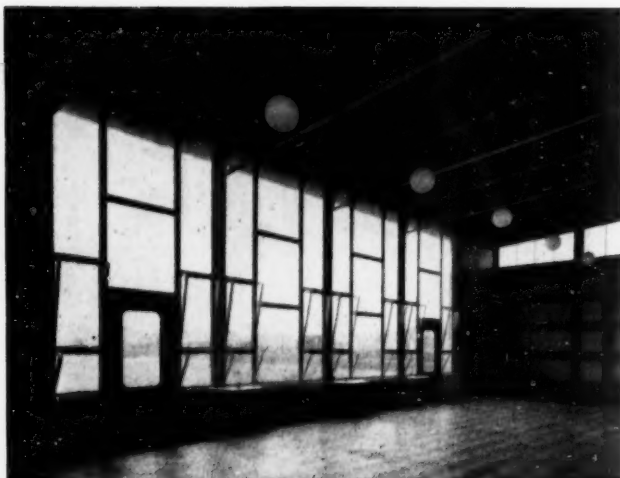


INFANT/PRIMARY SCHOOL, CLEETHORPES



The entrance gates, occupying full width of frontage available for access to the site.

[Continued overleaf]



Top L. : Interior of Assembly Hall looking out over playground. Top R. : Typical classroom, irregular in shape to allow group activities yet permitting adequate supervision. Internal partitions stop under the bottom chord of lattice trusses and are glazed above. Bottom L. : Assembly Hall showing kitchen service hatch provided when hall is used for dining. Continuous glazing at clerestory level. Bottom R. : Cloakroom corridor in the primary classroom wing.



INFANT/PRIMARY SCHOOL, CLEETHORPES
ARCHITECT: ALISTER MACDONALD F.R.I.B.A.

General Contractor—F. A. Would, Ltd., Grimsby.

Sub-contractors:

Steel frame: Hills (West Bromwich), Ltd. External cladding and internal partitions: Holoplast, Ltd. Internal partitions: Compactum, Ltd. Heating: Ashwell & Nesbitt, Ltd. Electrical: Harry Carr, Ltd. Magnesite flooring: Terradura Flooring Co. Metal windows: Williams & Williams, Ltd. Sanitary and cloakroom fittings: B. Finch & Co., Ltd. Slate cills: Bow Slate & Enamel Co.

Entrants playground, showing grass mounds thrown up to relieve the flat site and screen play and outdoor teaching areas.

Notes below give basic data of contracts open under locality and authority which are in bold type. References indicate: (a) type of work, (b) address for application. Where no town is stated in the

CONTRACT • NEWS •

OPEN

BUILDING

BENTLEY-WITH-ARKSEY U.C. (a) (Contract No. 51) 42 houses, etc. (b) Council's Engineer, Council Offices, Cooke Street, Bentley, near Doncaster. (c) 2gns. (e) Oct. 19.

BINGHAM R.C. (a) 6 houses with site works, etc., Orston. (b) Messrs. William Saunders and Partners, 24, Castlegate, Newark-on-Trent. (c) 3gns. (e) Sept. 25.

BIRKENHEAD B.C. (a) (Contract No. 13) 203 dwellings, Woodchurch Estate. (b) Borough Architect, "Menlo," Wexford Road. (c) 2gns. (e) Oct. 2.

BRIDLINGTON B.C. (a) Conversion of Danes Dyke House into cafe and flats. (b) Borough Engineer, Town Hall; with particulars of works of this nature carried out. (c) 2gns. (e) Oct. 5.

BUCKS STANDING JOINT COMMITTEE. (a) New police station, Marlow. (b) County Architect, County Offices, Walton Street, Aylesbury. (c) 2gns. (d) Sept. 18. (e) Nov. 2. (Bills of quantities available on Oct. 5.)

CHIGWELL U.C. (a) 36 houses, Chigwell (Erection of 30 two-bedroom and 16 three-bedroom houses in semi-detached and terraced blocks; the contract may be split in two parts or let as a whole.) (b) Messrs. Tooley and Foster, Midland Bank Chambers, Buckhurst Hill, Essex. (d) Sept. 28.

CHISLEHURST AND SIDCUP U.C. (a) Civil Defence Control Centre. (b) Council's Engineer and Surveyor, Manor House, Sidcup. (c) 2gns. (d) Sept. 21.

DAGENHAM B.C. (a) 38 houses and 18 old persons' dwellings, Marks Gate Estate. (b) Borough Engineer and Surveyor, Civic Centre. (c) 2gns. (e) Oct. 5.

DRONFIELD U.C. (a) 1 block of 12 flats (in three storeys), Scarsdale Road. (b) Clerk of the Council, Council Offices. (c) 2gns payable to Council. (e) Oct. 5.

DURHAM COUNTY POLICE AUTHORITY. (a) 1 pair of standard police houses with office, Winlanton (Phase 2). (b) Police Authority Architect, Court Lane. (e) Sept. 25.

ESSEX COURT OF QUARTER SESSIONS AND C.C. (a) Police station and houses, L.C.C. Estate, Aveley (approx. value of contract £25,000). (b) County Architect, County Hall, Chelmsford. (d) Sept. 19.

EXETER C.C. (a) 42 dwellings, Group "W"; 41 dwellings, Group "X"; 38 dwellings, Group "Y"; 23 dwellings, Group "Z" (b) City Architect, Municipal Buildings. (c) 3gns. (e) Oct. 7.

FAREHAM U.C. (a) (1) 2 houses at Castle Street, Titchfield and (2) 3 houses at West Street, Titchfield. (b) Engineer and Surveyor, Westbury Manor. (c) 2gns. (e) Sept. 30.

address it is the same as the locality given in the heading, (c) deposit, (d) last date for application, (e) last date and time for submission of tenders. Full details of contracts marked ★ are given in the advertisement section.

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Head of Department of Architecture:
T. E. Scott, C.B.E., F.R.I.B.A.

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School year begins 28th September, 1953.
Fees—£28 per annum.
Students under the age of 18 may be admitted free.

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FAREHAM U.C. (a) Public convenience, Warsash Road, Warsash. (b) Engineer and Surveyor, Westbury Manor. (c) Sept. 25.

FRIERN BARNET U.C. (a) Single-storey garage building, 50ft x 30ft, Sewage Disposal Works, Cromwell Road, N.10. (b) Engineer and Surveyor, Town Hall, N.11. (c) Oct. 2.

FROME R.C. (a) Block of 4 houses with ancillary services, Trudoxhill. (b) Humphrey H. Goldsmith, 18, Gay Street, Bath. (c) 2gns. (d) Sept. 22.

FULWOOD U.C. (a) 2 flats at junction of Lulworth Road and Sharoe Green Lane. (b) Messrs. Lillie and Kirkham, 105, Fishergate, Preston. (c) 2gns. (e) Oct. 9.

HALIFAX B.C. (a) Alterations and additions at Ling Bob Day Nursery. (b) Borough Engineer's Office, Crossley Street. (c) Oct. 6.

HARROW U.C. (a) 44 dwellings and 8 garages, Stonegrove, Edgware; 31 houses and 6 garages, Latimer Gardens, Pinner. (b) Engineer and Surveyor, Council Offices, Cottesmore, Uxbridge Road, Stanmore. (c) £2 crossed cheque payable to Council. (e) Oct. 8. (Separate tenders.)

HASLINGDEN B.C. (a) 3 blocks of 7 2-bedroom houses and 2 blocks of 8 1-bedroom flats, Long Shoot Housing Estate. (b) Borough Engineer and Surveyor, Municipal Offices. (c) 2gns. (e) Oct. 10.

HEANOR U.C. (a) 4 shops, 3 flats and 6 garages, Marpool Farm Estate. (b) Engineer and Surveyor, Council Offices. (c) 2gns. (e) Sept. 26.

HORNCHURCH U.C. (a) Public sanitary conveniences, Cherry Tree Lane, South Hornchurch. (b) Council's Surveyor, Council Offices. (c) 2gns. (e) Sept. 26.

LINCOLN CORPORATION. (a) Civil Defence garage adjoining Civil Defence Headquarters. (b) City Architect, Stamp End. (c) Oct. 5.

COUNTY OF LINCOLN—PARTS OF KESTEVEN. (a) (1) Three Form Entry Mixed secondary modern school, Grantham; (2) Two Form Entry Mixed secondary modern school; (3) Two Form Entry Mixed secondary modern school, Ruskington. (b) County Architect, County Offices, Sleaford. (d) Sept. 30. (e) Oct. 24.

LINCOLNSHIRE (LINDSEY) C.C. (a) Extension and alterations to Burgh Hall Hostel, Burgh-le-Marsh, near Skegness. (b) County Architect, County Offices, Lincoln. (c) Sept. 30.

MANSFIELD B.C. (a) Public conveniences, junction of Stockwell Gate and Bancroft Lane. (b) Borough Engineer and Surveyor's office, Carr Bank. (c) 2gns. (e) Oct. 5.

MONTGOMERYSHIRE C.C. (a) Repairs, alterations, etc., at Y Dolydd, Llanfyllin. (b) Chief Welfare Officer, Welfare Department, County Offices, Welshpool. (c) 2gns. (e) Oct. 5.

NORTH KESTEVEN R.C. (a) 4 houses at Waddington and 6 houses at Thorpe-on-the-Hill. (b) J. Chadwick, 31, Clasketgate, Lincoln. (c) 2gns. (e) Oct. 18.

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NORWICH C.C. (a) 92 dwellings, Mansfield Lane, in 4 groups. (b) City Architect, City Hall. (c) Oct. 5.

PORTSMOUTH C.C. (a) 96 houses, Billy Lawn, Leigh Park. (b) City Architect, Municipal Offices, 1, Western Parade, Southsea. (c) 3gns. (d) Sept. 21.

QUEENSBURY AND SHELF U.C. (a) 20 bungalows, Cockhill Estate, Shelf. (b) Engineer and Surveyor, Council Offices, Queensbury. (c) 2gns. (e) Oct. 12.

ROCHFORD R.C. (a) 14 houses at Bakers Grave, Barling Magna. (b) Engineer and Surveyor, Council Offices. (c) Oct. 5.

SCOTLAND—GLASGOW CORPORATION. (a) Several works in connection with the erection of shops and flats, Toryglen. (b) Architectural and Planning Department, 20, Trongate. (c) Oct. 2.

SITTINGBOURNE AND MILTON U.C. (a) 32 houses, Canterbury Road Housing Estate. (b) Engineer and Surveyor's Office, Sittingbourne. (c) 3gns. (e) Oct. 12.

SOUTHWOLD B.C. (a) 10 houses, Cautley Road. (b) Messrs. Cautley and Barefoot, Thoro'fare, Ipswich. (c) 3gns. (e) Oct. 5.

STROOD R.C. (a) 20 houses, Sole Street, Cobham. (b) Engineer and Surveyor, Council Offices, Frindsbury Hill. (c) 5gns. (e) Oct. 2.

SUNDERLAND B.C. (a) 14 shops and flats (fixing of shop fronts) Farrington, Hylton Red House and Castleton Estates. (b) Borough Architect, Grange House, Stockton Road. (c) 2gns. (e) Sept. 26.

SUTTON AND CHEAM B.C. (a) 21 houses, Gander Green Lane, Sutton. (b) Borough Engineer and Surveyor, Municipal Offices, Sutton. (c) 3gns. cheque payable to Council. (d) Sept. 18. (e) Oct. 23.

SWANSEA B.C. (a) Sub-divisional police station with office accommodation and superintendent's house, Sway Road, Morriston. (b) Borough Architect, The Guildhall. (c) 2gns. (d) Sept. 21.

UXBRIDGE U.C. (a) (Contract No. 262) 27 flats in three 3-storey Blocks (with Bills of Quantities) and 12 flats in three 2-storey blocks, 18 houses and 6 bungalows (without Bills of Quantities). (b) Engineer and Surveyor, 263, High Street. (c) Oct. 5.

WANSTEAD AND WOODFORD B.C. (a) Public conveniences at Grove Lodge, Woodford, and High Road, Woodford Bridge. (b) Town Clerk, Municipal Offices, High Road, Woodford, E.18. (c) 3gns. (e) Oct. 2.

WREXHAM B.C. (a) 197 2-storey dwellings, Queens Park Estate, Southern Area, Section 6. (b) Borough Engineer and Surveyor, 31, Chester Street. (c) 3gns. (e) Oct. 12. (Contract may be divided into two contracts of 75 and 122 dwellings, or the whole 197. Applicants should state which they wish to tender for.)

YORK C.C. (a) 2 pairs of houses with site works, Naburn Lane, near York. (b) City Architect, 8, St. Leonard's Place. (c) £1. (e) Oct. 1.

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BRISTOL CITY COUNCIL. (1) Housing contracts. (2) Various estates. (3) Stone and Co. (Bristol), Ltd., Redland Road, Bristol (122 houses). John Laing and Son, Ltd., London, N.W.7 (136). Wm. Cowlin and Son, Ltd., Bristol, 2 (48 houses). H. E. Green and Sons, Ltd., Bristol (35 houses). W. J. Kew (Contractors), Ltd., Bristol (47). W. Rogers and Sons (Bristol), Ltd., Bristol (18). (4) Total £783,358.

TUNBRIDGE WELLS. (1) Development of private estate of 240 houses. (2) Hawksbury. (3) G. T. Crouch, Ltd., 3, Thames Street, Kingston-on-Thames.

SURBITON. (1) Bakery and offices, for J. Lyons and Co., Ltd. (3) Sir Robert McAlpine and Sons, Ltd., 80, Park Lane, London, W.1. (4) £80,000.

BOURNEMOUTH B.C.—(1) 16 flats. (2) West Howe estate. (3) Geo. Jenkins and Sons (Winton), Ltd., 119, Alma Road, Winton, Bournemouth. (4) £20,578.

ST. LEONARDS-ON-SEA. (1) Factory and offices. (3) Walter Llewellyn and Sons, Ltd., 3, Cornfield Terrace, Eastbourne. (4) £200,000.

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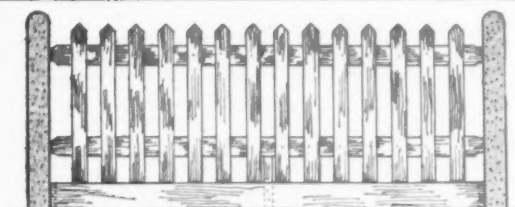
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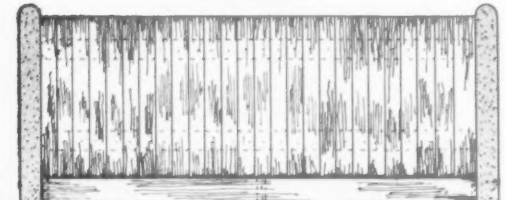
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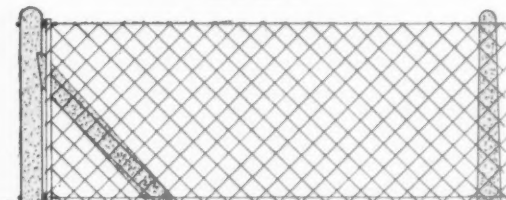
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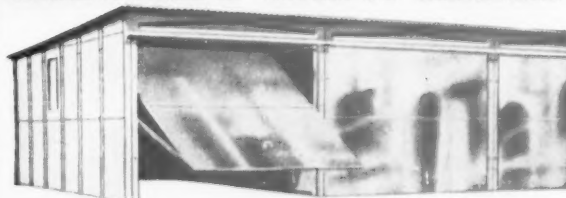
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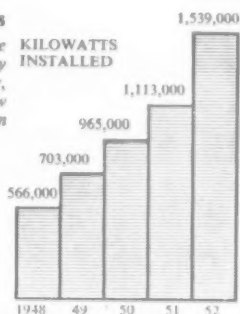
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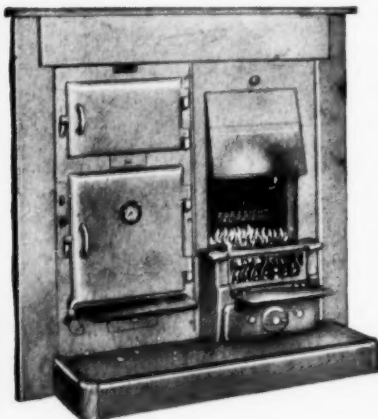


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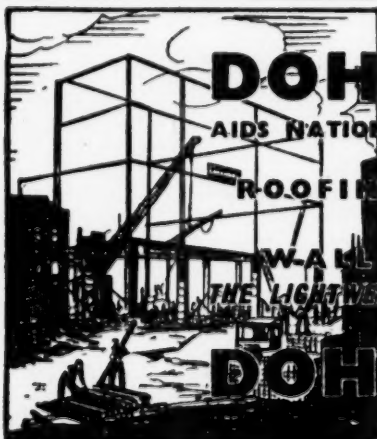
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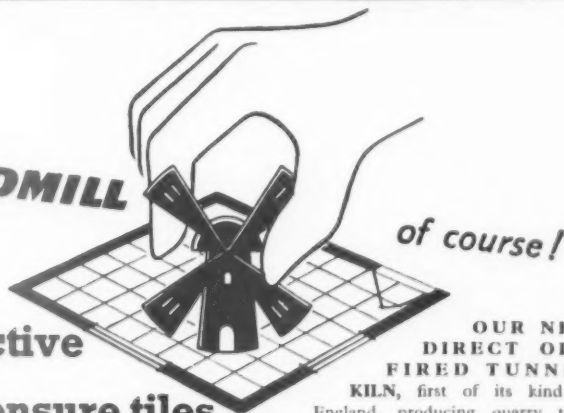
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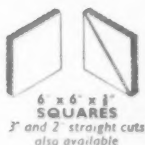
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Applications, stating age, qualifications and experience, together with names of three persons to whom reference could be made, should be addressed to the Director, Timber Development Association, Ltd., 21, College Hill, London, E.C.4, to be received not later than 1st October, 1953. [7309]

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Housing accommodation in the New Town will be available in appropriate cases.

Applications, on the form obtainable from the Chief Architect, should reach the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by 28th September, 1953. [7320]

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Applications, with names of two persons for references, should be received by the undersigned not later than Saturday, the 3rd October, 1953, endorsed "Assistant Architect."

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Town Hall,
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[7323]

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Applicants should be Associate Members of the R.I.B.A. The architect appointed will be required to take charge of a Clearance Area Redevelopment Scheme and previous experience of this type of work is desirable. In addition candidates should be experienced in the layout of contemporary housing schemes, design and construction of Municipal houses, flats and shopping centres and capable of taking charge of and administering building contracts.

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Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be delivered to the undersigned not later than Friday, 2nd October, 1953.

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[7324]

COMPETITIONS

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The closing date for submission of designs is 12 noon, Saturday 30th, January, 1954, and the late date for questions is Thursday 15th October, 1953.

Competition conditions and a plan of the site may be obtained from Rev. Ivan F. Tibbs, M.A., The Church of Scotland Offices, 232, St. Vincent Street, Glasgow, C.2, on payment of a deposit of £2 2s; which will be returned on receipt of a bona fide design or on the return of the competition documents at least four weeks before the last day for the submission of designs. [7300]

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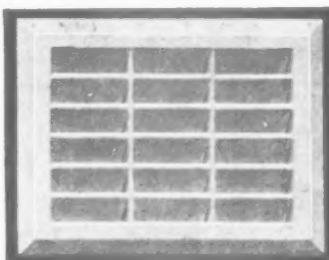
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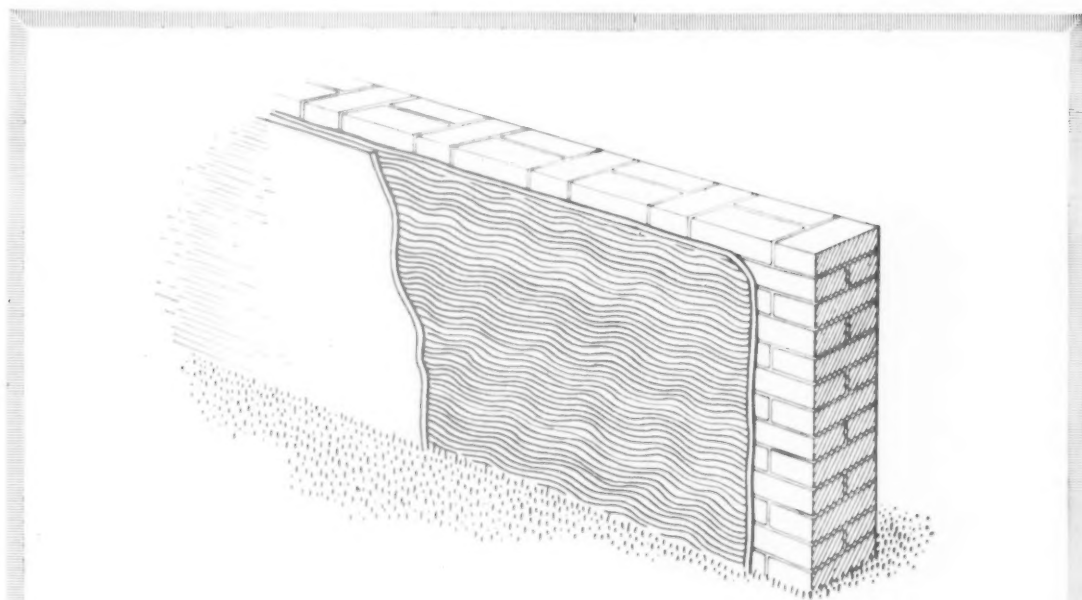
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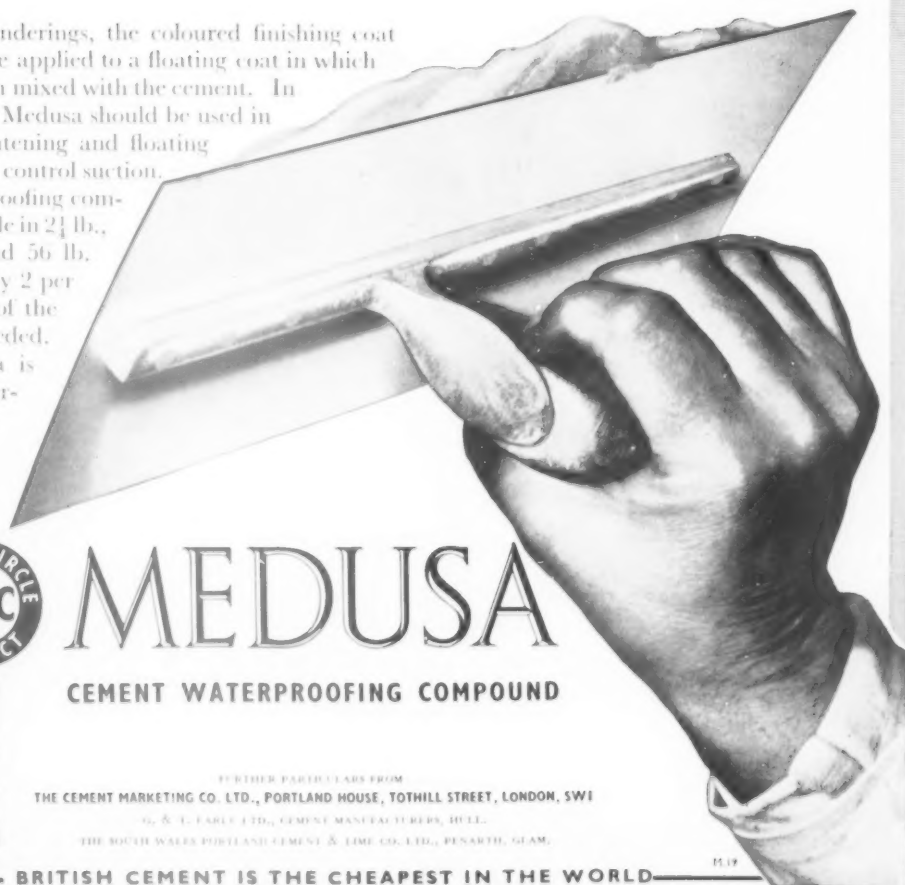
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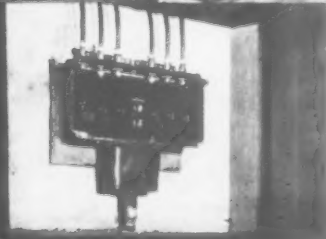
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